

iVMS-4200 PCNVR User Manual

Version 1.02

User Manual of iVMS-4200 PCNVR

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Chapter 1. Overview

1.1 Description

The iVMS-4200 PCNVR is designed to manage the embedded network surveillance devices, such as network cameras and DVS and provide mainly the storage and management function for the input video stream. It functions as a NVR installed on your PC, only it has not a specific hardware device and dedicated record file storage HDDs. The software cuts the complexity of the surveillance application.

This user manual describes the function, configuration and operation steps of iVMS-4200 PCNVR software. To ensure the properness of usage and stability of the software, please refer to the contents below and read the manual carefully before installation and operation.

What can this software do?

- Live view, recordings and playback on your PC
- Event and alarm management function
- Maintenance and storage handling
- Easy control of PTZ and PTZ dome network cameras
- Synchronized playback from up to 16 video sources simultaneously
- E-map adding functions for a convenient management for the location of cameras and alarms.
- User-based permission control

1.2 Running Environment

Operating system: Microsoft Windows 7/Windows 2008 (32/64 bit operating system), Windows 2003/Windows XP(32 bit operating system)

CPU: Intel Pentium IV 3.0 GHz or above

Memory: 1G or above

Display: 1024*768 or above

Notes:

1. To simultaneously live view for many channels, or for the channel with high resolution, the higher hardware configuration is needed.
2. The software does not support 64-bit operating system; the above mentioned 64-bit operating system refers to the system which supports 32-bit applications as well.

1.3 Conventions

In this document, the iVMS-4200 PCNVR client software is referred to as software, client, or PCNVR.

Chapter 2 Starting iVMS-4200 PCNVR

2.1 User Login

When you open the iVMS-4200 PCNVR software after registration, the login dialog box pops up, shown as follows:

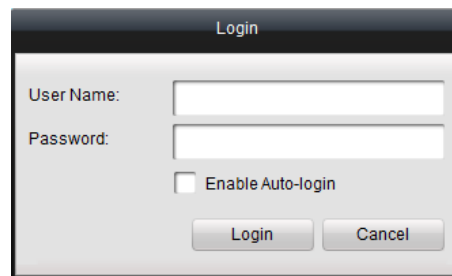
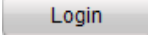


Figure 2.1 User Login

Input the user name and password, and then click . The user name is *admin* and password is *12345* by default. You can also enable the auto-login by checking the  **Enable Auto-login** checkbox.

2.2 Wizard for Importing Device

After registration and login, you enter the camera adding wizard interface of iVMS-4200 PCNVR. This wizard helps you to go through the basic operations of the PCNVR, such as adding cameras, to ensure the normal operation of the PCNVR.

Step 1: Start Guide

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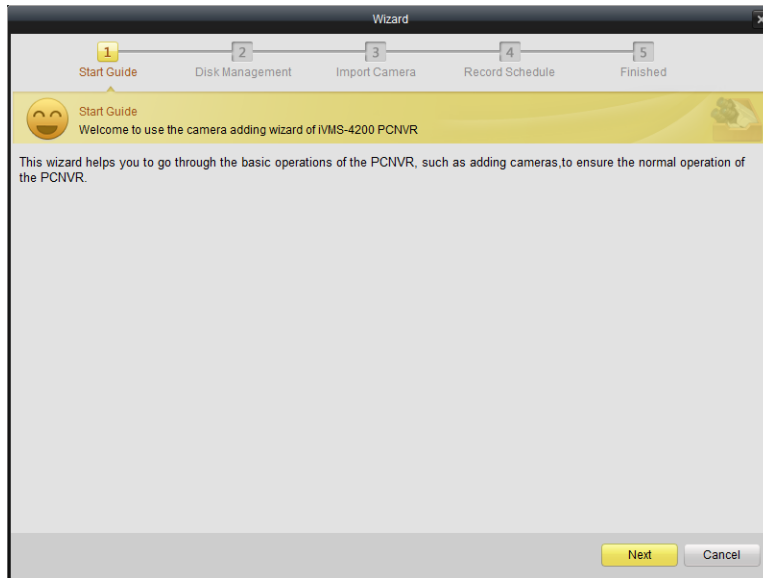
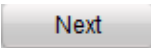
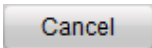


Figure 2.2 Start Guide

Click  to continue the wizard, or click  to exit the wizard and you can open the wizard from **Help** menu.

Step 2: Disk Management

Disk management is the management of recording storage devices. Select one or more HDDs on the disk list shown as follows:

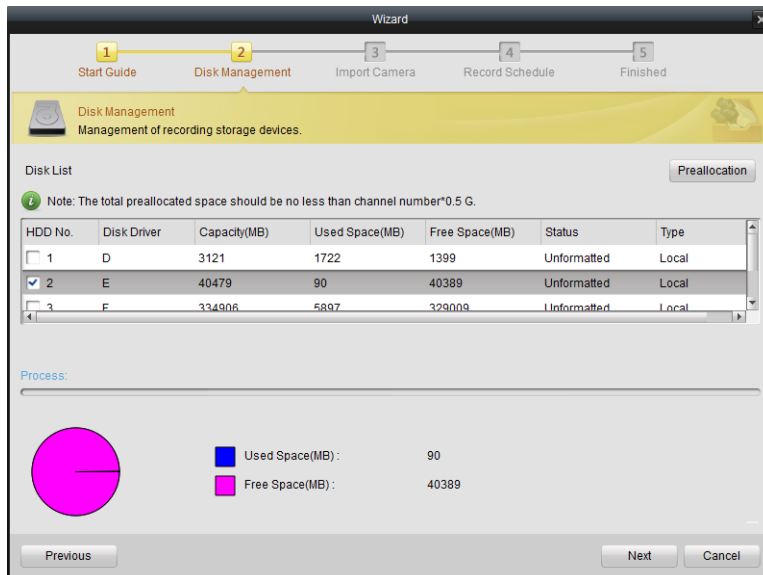
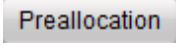


Figure 2.3 Disk Management

Note: The total preallocated space should be no less than channel number*0.5 G.

- 1) Click  to preallocate the HDD and the following message box pops up:

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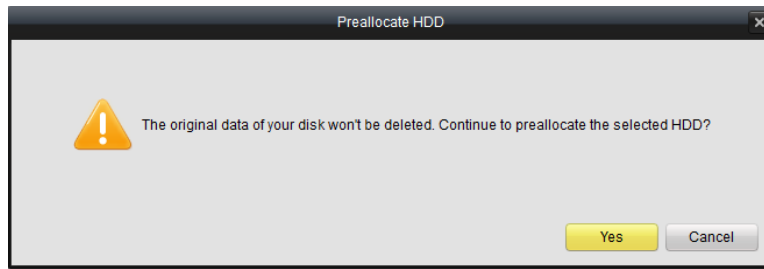
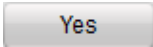


Figure 2.4 HDD Preallocation

Note: The preallocation function in the software won't delete the original data of your disk. It just preallocates the disk space for recording.

- 2) Click  to continue and the process bar shows the preallocation process of the HDD.

After the preallocation completed, the following message box pops up:

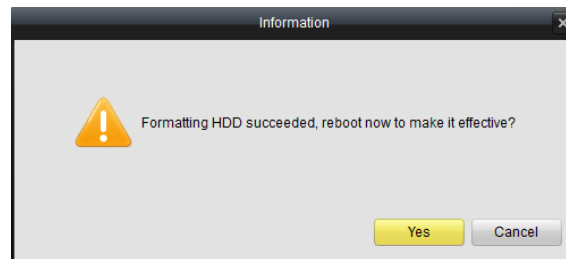
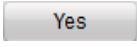
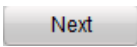
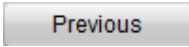


Figure 2.5 Information

- 3) Click  to reboot the software.
- 4) Input the user name and password to login again. The status of the preallocated HDD changes from **Unformatted** to **Normal**. The normal HDD can be used as the recording storage device.
- 5) Click  to the next step, or click  to the previous step.

Step 3: Import Camera

Note: Up to 64 channels can be added.

Click  icon to enter the **Add Camera** interface.

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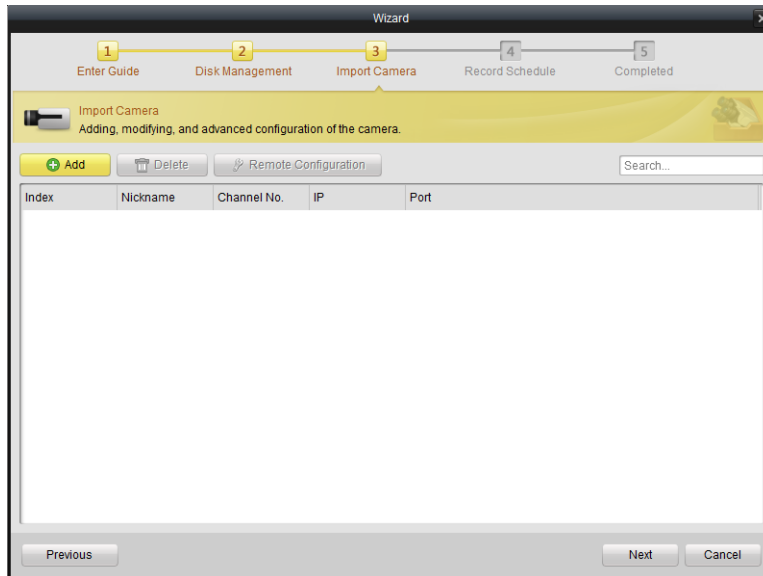


Figure 2.6 Import Camera

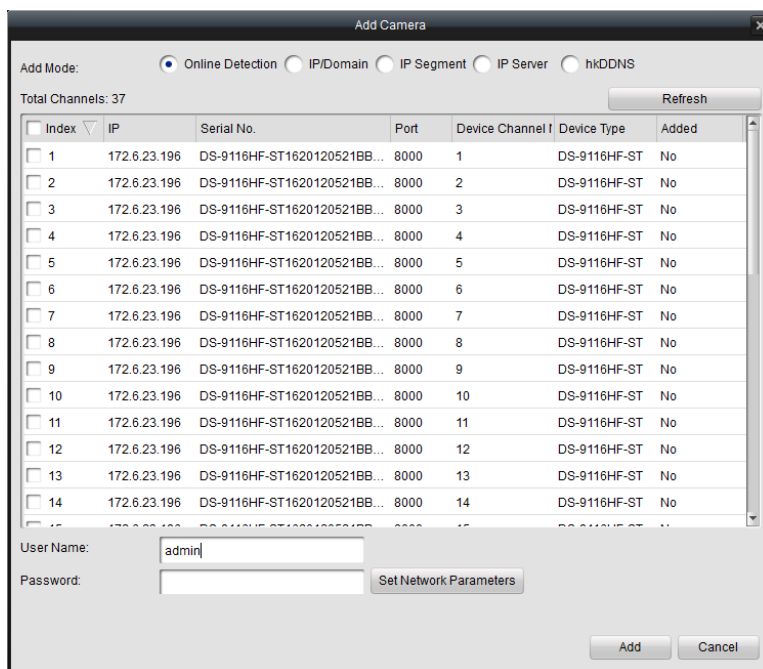


Figure 2.7 Add Camera

iVMS-4200 PCNVR provides 5 different adding modes: **Online Detection**, **IP/Domain**, **IP Segment**, **IP Server** and **hkDDNS**.

- **Online Detection**

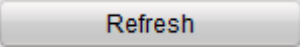
Steps:

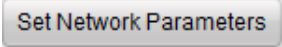
- 1) Select **Online Detection** mode, and the online cameras that are in the same network segment with that of the PCNVR are displayed on the list, shown in the above figure.
- 2) Check the checkbox of the online camera you want to add.

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3) Input the user name and password. The User Name and Password are *admin* and *12345* respectively by default.

4) Click  to add the selected camera and close the Add Camera interface.

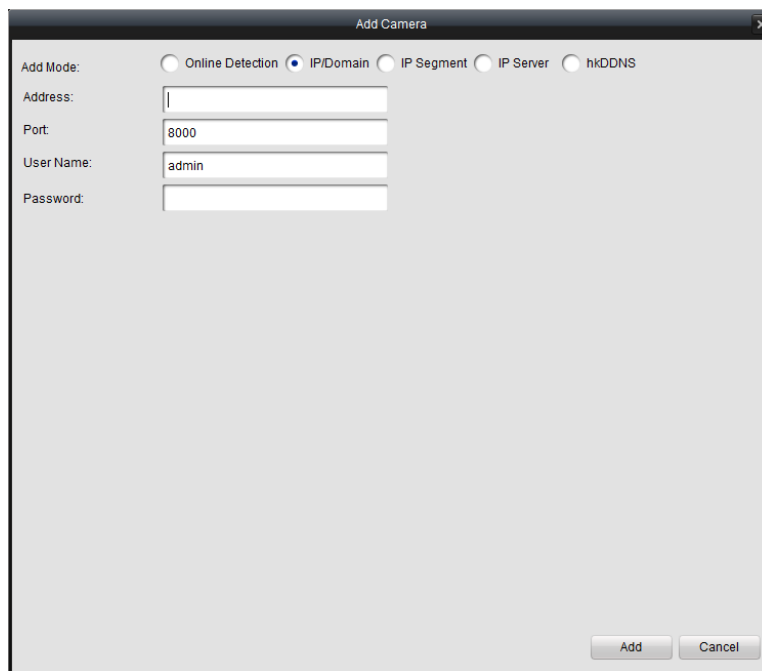
You can click  to update the online cameras information and can also click

 to set the network parameters of the selected camera.

- **IP/Domain**

Steps:

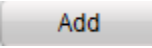
1) Select **IP/Domain** mode to enter the dialog box shown as follows:



The image shows a dialog box titled "Add Camera". At the top, there are five radio buttons for "Add Mode": "Online Detection", "IP/Domain" (which is selected), "IP Segment", "IP Server", and "hkDDNS". Below these are four text input fields: "Address:" (empty), "Port:" (containing "8000"), "User Name:" (containing "admin"), and "Password:" (empty). At the bottom right of the dialog box are two buttons: "Add" and "Cancel".

Figure 2.8 IP/Domain

2) Input the IP address, port, user name and password of the camera.

3) Click  to add the camera and close the dialog box.

Note: The port, user name and password are *8000*, *admin* and *12345* by default.

- **IP Segment**

IP Segment mode provides a way to search the online cameras with IP address value between the start IP and end IP.

Steps:

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- 1) Select **IP Segment** mode and input the start IP address, end IP address, port, user name and password, shown as the follows:

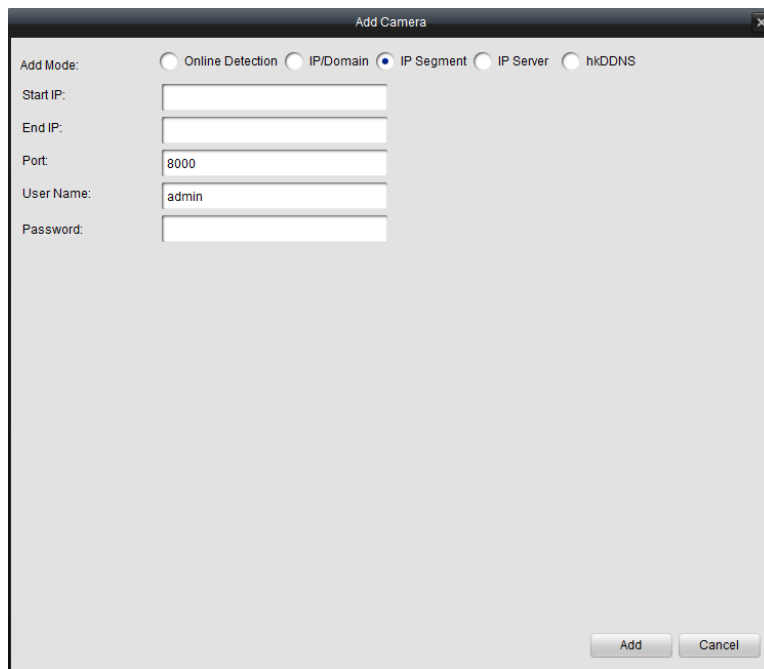


Figure 2.9 IP Segment

Click  to continue and the Channel List will be displayed.

- 2) You can check the Online Status of the cameras with IP address value between the start IP address and end IP address, shown as follows:

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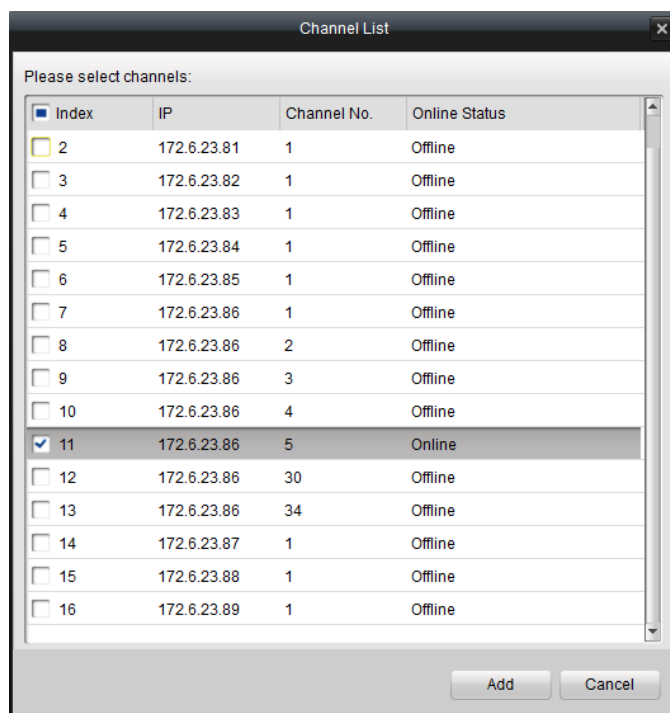
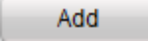


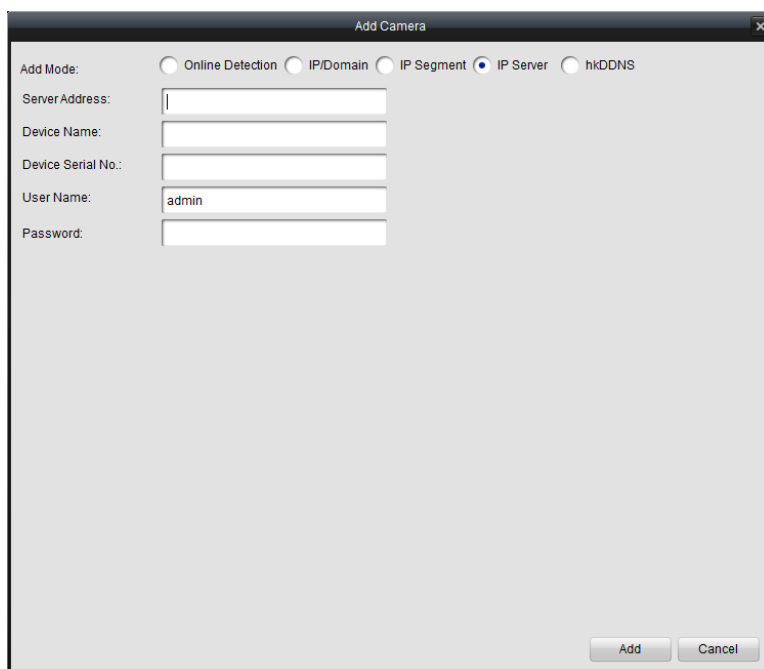
Figure 2.10 Channel List

3) Select the online channels, and click  to add the selected cameras.

● IP Server

Steps:

1) Select **IP Server** mode to enter the dialog box shown as follows:



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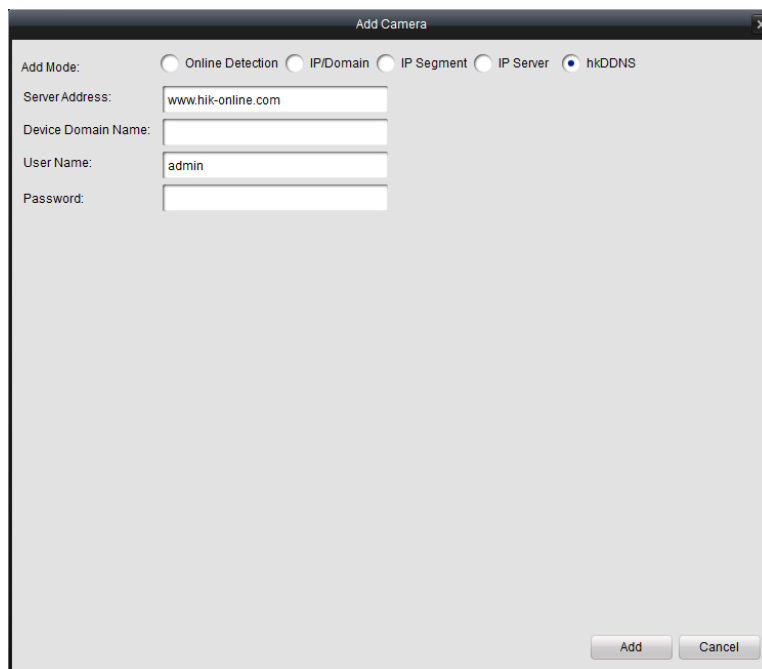
Figure 2.11 IP Server

- 2) Input the server address, and the server address should be the IP address of the PC that runs IPServer.
- 3) Input the device name, device serial No., user name, and password of the camera.
- 4) Click  to add the camera and close the dialog box.

● hkDDNS

Steps:

- 1) Select **hkDDNS** mode to enter the dialog box shown as follows:



The screenshot shows a dialog box titled "Add Camera". At the top, there are five radio buttons for "Add Mode": "Online Detection", "IP/Domain", "IP Segment", "IP Server", and "hkDDNS". The "hkDDNS" radio button is selected. Below the radio buttons are four text input fields: "Server Address" (containing "www.hik-online.com"), "Device Domain Name" (empty), "User Name" (containing "admin"), and "Password" (empty). At the bottom right of the dialog box are two buttons: "Add" and "Cancel".

Figure 2.12 hkDDNS

- 2) Input the server address of the hkDDNS server: www.hiddns.com.
- 3) Input the device domain name. You can register the alias of the device domain name on the hkDDNS server first and then input the alias in the device domain name text field; you can also input the domain name directly in the device to create a new one.
- 4) Click  to add the camera and close the dialog box.

Note: If a new alias of the device domain name is defined in the device, it will replace the old one registered on the server.

To Register a device on the hkDDNS server.

Steps:

- 1) Go to the hkDDNS website: www.hiddns.com.

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- 2) Click [Register new user](#) to register an account if you do not have one and use the account to log in.

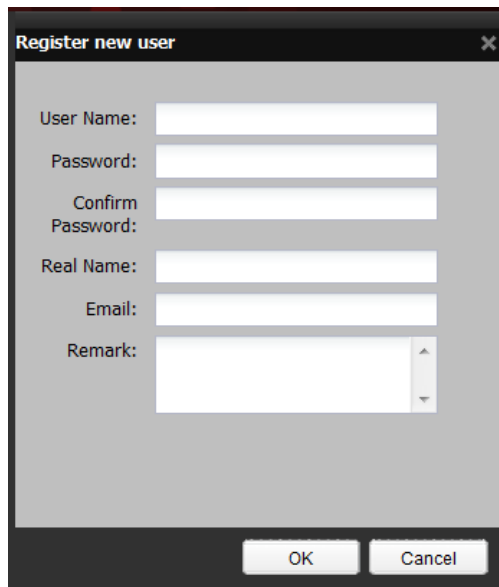
A dialog box titled "Register new user" with a close button (X) in the top right corner. It contains several input fields: "User Name:", "Password:", "Confirm Password:", "Real Name:", "Email:", and "Remark:". The "Remark:" field is a text area with a vertical scrollbar. At the bottom, there are "OK" and "Cancel" buttons.

Figure 2.13 Register an Account

- 3) In the Device Management interface, click the icon  to register the device.

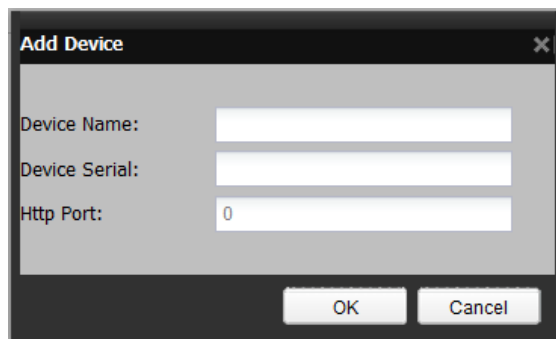
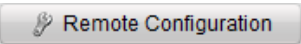
A dialog box titled "Add Device" with a close button (X) in the top right corner. It contains three input fields: "Device Name:", "Device Serial:", and "Http Port:". The "Http Port:" field has the value "0" entered. At the bottom, there are "OK" and "Cancel" buttons.

Figure 2.14 Register the Device

Note: Only lower-case English alphabet, numeric and '-' can be used in the alias of the device and the alias must be started with letter of the lower-case English alphabet.

To delete the camera added, you can select the camera on the list and click the icon . To configure the camera added, you can select the camera on the list and click the icon . Please refer to *Section 3.2 Remote Management* for details.

Step 4: Record Schedule

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Select the camera added and click the icon  to enter Modify Record Schedule interface shown as follows:

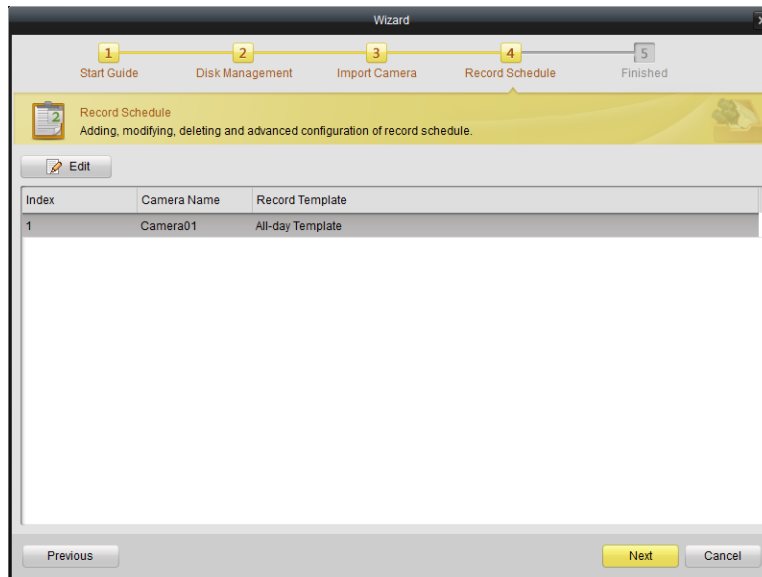


Figure 2.15 Record Schedule

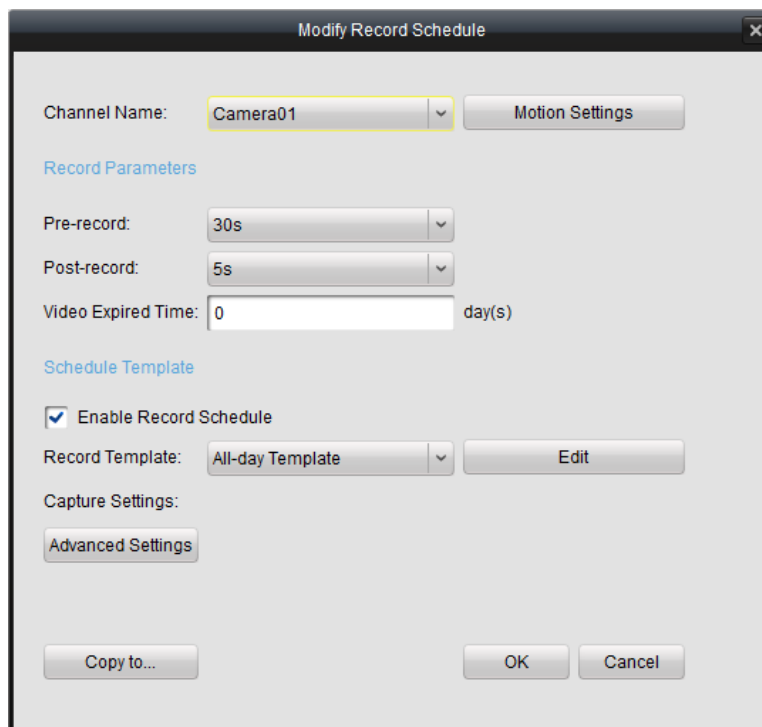


Figure 2.16 Modify Record Schedule

You can configure the record parameters and schedule template of the selected camera. And the motion settings and capture settings are also allowed. Please refer to *Section 5.1 Schedule Recording* for detailed information.

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Step 5: Wizard Completed

The wizard is completed and you can click **OK** to close the wizard interface.

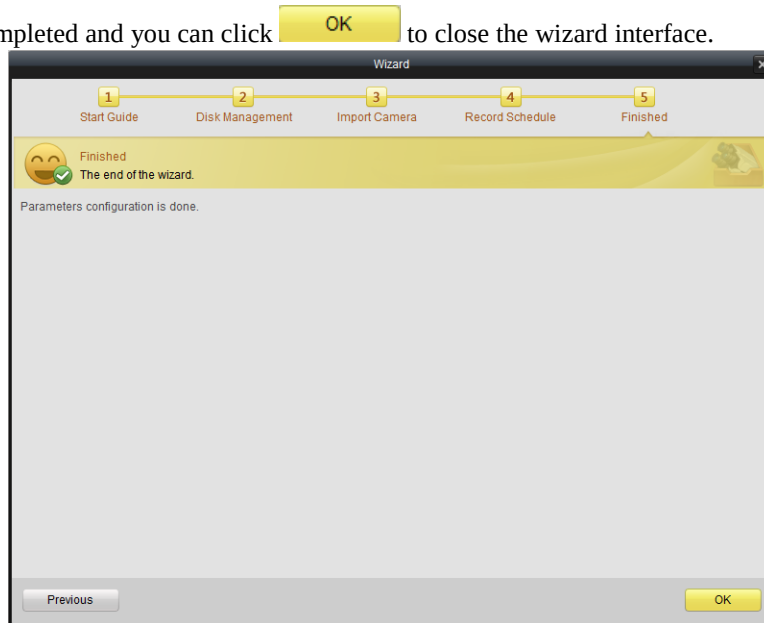


Figure 2.17 Wizard Completed

2.3 Control Panel and Main Menu Bar Introduction

The main control panel of the iVMS-4200 PCNVR is shown as follows:

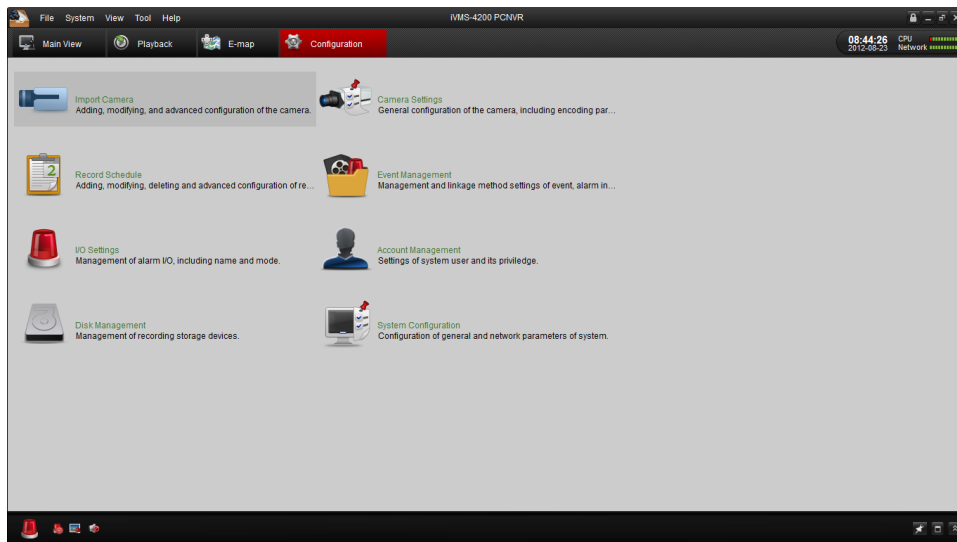


Figure 2.18 Control Panel

Menu Bar:

File	Open Captured picture	Search the captured picture(s) from the start time to end time.
-------------	------------------------------	---

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	Open Video File	Enter the video player and select the folder location of the exported video file(s). You can also capture pictures during the playing of the video file.
	Open Log File	Open the log file stored on your PC.
	Auto Run	Run the software automatically when you start your PC.
	Exit	Exit the iVMS-4200 PCNVR client.
System	Lock	Lock the screen operation. Log in the client again to unlock the operation.
	Switch User	Switch the login user.
	Import Configuration File	Import client configuration file from your computer.
	Export Configuration File	Export client configuration file to your computer.
	Restore Default Settings	Click to restore the default settings for the software.
View	1024*768	Display window at size of 1024*768 pixels.
	1280*1024	Display window at size of 1280*1024 pixels.
	1440*900	Display window at size of 1440*900 pixels.
	1680*1050	Display window at size of 1680*1050 pixels.
	Full Screen	Display window in full screen.
	Main View	Enter Main View interface.
	Playback	Enter Playback interface.
	E-map	Enter E-map interface.
	Configuration	Enter Configuration interface.
	Auxiliary Screen Preview	Open Auxiliary Screen Preview window.
Tool	Import Camera	Enter Import Camera interface.
	Camera Settings	Enter Camera Settings interface.
	Record Schedule	Enter Record Schedule interface.
	Event Management	Enter Event Management interface.
	I/O Settings	Enter I/O Settings interface.
	Account Management	Enter Account Management interface.
	Disk Management	Enter Disk Management interface.
	System Configuration	Enter System Configuration interface.
	Log Search	Enter Log Search interface.
	Broadcast	Select camera to start broadcasting.
	I/O Control	Turn on/off the alarm output.
	Soft Keyboard	Operate the client software using the PC keyboard.
	Open Wizard	Open the guide for the client configuration.
Help	User Manual (F1)	Click to open the User Manual; you can also open the User Manual by pressing F1 on your keyboard.
	About	View information of the client software, including company, software name, version, etc.
	Language	Select the language for the client software and reboot the software to activate the settings.

There are 4 tabs on the control panel shown as follows:



Main View: The live view interface for all the added cameras. Please refer to *Chapter 4 Live View* for detailed information.

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Playback: The playback page for the record files. Please refer to *Chapter 6 Playback* for detailed information.

E-map: On the E-map page you can link the location of the camera to the e-map and sub-map are also supported. Please refer to *Chapter 9 E-map Management* for detailed information.

Configuration: The configuration panel of the client software.

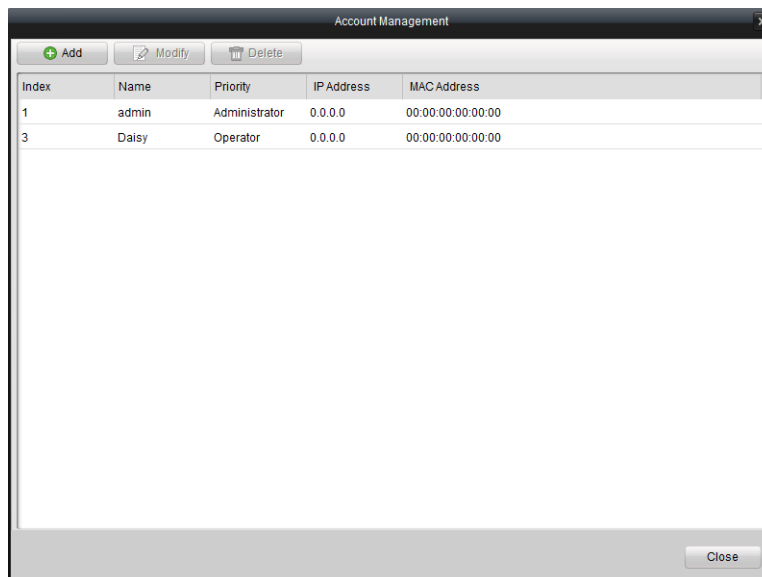
There are 8 icons on the configuration panel, and their functions are described in the following table:

Operating Options	Import Camera	Add, modify, delete or do remote configuration of the camera.
	Record Schedule	Edit the record schedule by configuring the recording parameters, schedule template and so on.
Management Options	Event Management	Configure the alarm source, linkage method and so on.
	Account Management	Add, modify or remove the user account parameters; and assign operating permission to each user.
	Disk Management	Manage recording storage devices.
Configuration options	Camera Settings	Configure camera parameters including picture settings, video quality, video display and PTZ control.
	I/O Settings	Manage alarm input/output, including the name and the mode.
	System Configuration	Configure general parameters including saving path of files, alarm sound, Email, etc.

2.4 Account Management

Steps:

1. Click  to enter the following account management interface:



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Figure 2.19 Account Management

- Click the icon , and the Add User dialog box pops up as follows:

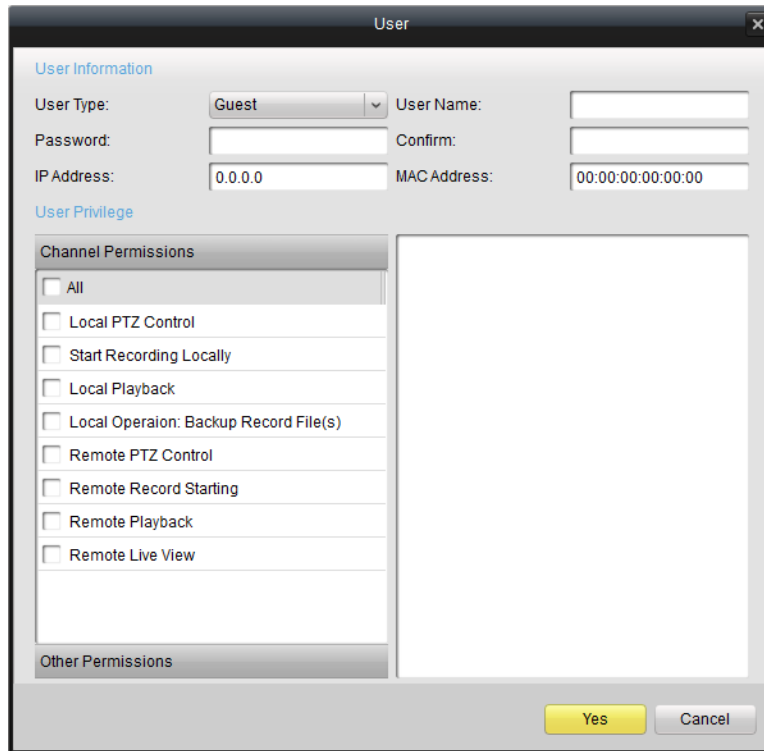


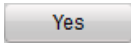
Figure 2.20 Add User

There are two parts of the Add User dialog box: User Information and User Privilege.

User Information—provides two user types (Guest and Operator) to support the users with different permissions.

User Permissions—include 8 channel access permissions and 16 operation permissions.

Note: The *admin* user has all the permissions by default and the permissions of the Operator user and Guest user can be selected from the permission list. All the selected permissions will immediately take effect.

- Customize the user name and password, and then click  to add a new user.

To modify the user settings, you can select the user and click the icon .

To delete the user, you can select the user and click the icon .

Chapter 3 Adding Front-end Devices for Management and Recording

3.1 Camera Adding

Click the icon  on the configuration panel to enter the Import Camera interface, and click the icon  to enter the Add Camera interface. iVMS-4200 PCNVR provides 5 different modes to add camera(s):

- Online Detection
- IP/Domain
- IP Segment
- IP Server
- hkDDNS

For more detailed information of adding camera(s), please refer to *Section 2.2 Wizard for Importing Device*.

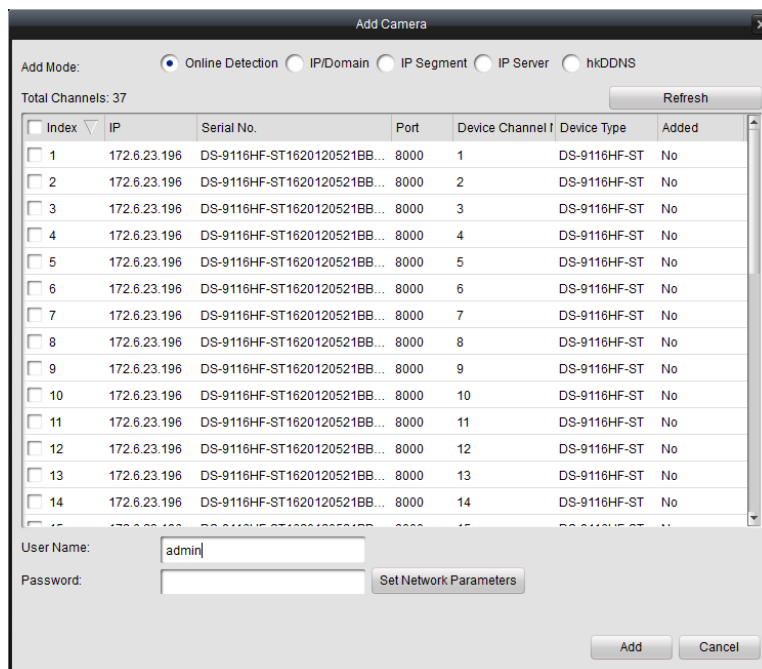


Figure 3.1 Camera Adding Interface

After adding the cameras, the basic information of the cameras added will be displayed on the Import Camera interface, shown as follows:

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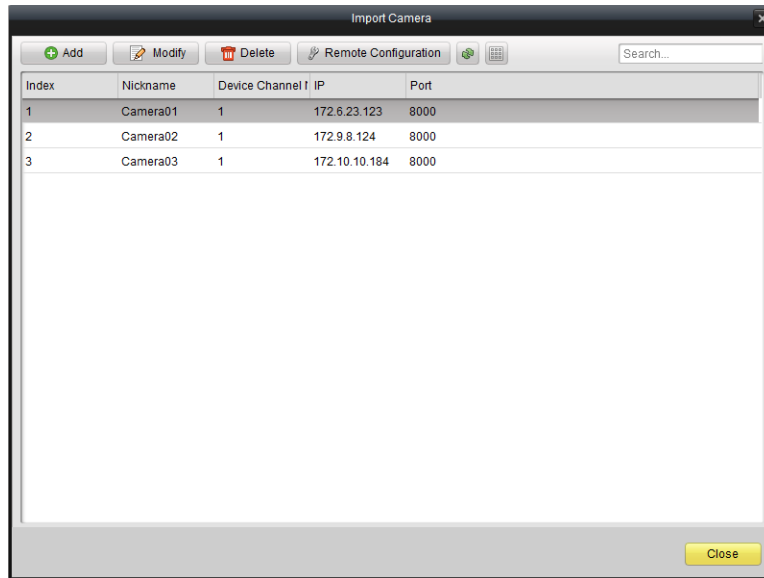


Figure 3.2 Import Camera

You can click the refresh icon  to update the camera information on the list.

You are also allowed to change to the thumbnail view format by clicking the icon . To switch to the list view format, click the icon .

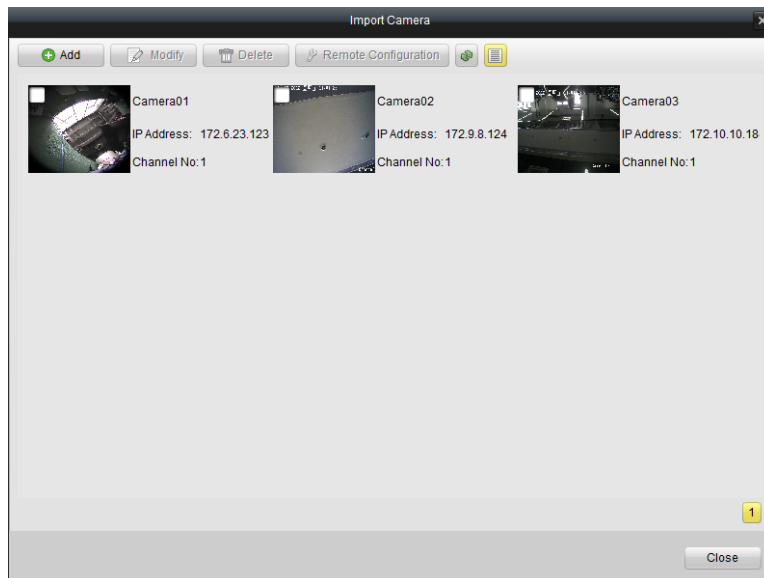


Figure 3.3 Import Camera-Thumbnail Format

Note:

In thumbnail view format, the image displayed on the interface is the still image but not the live view of the camera. If the scene in the camera changes, you can click the refresh icon  to get the new image.

3.2 Remote Management

3.2.1 Remote Configuration

Steps:

1. Click the icon  on the configuration panel to enter the Import Camera interface shown below:

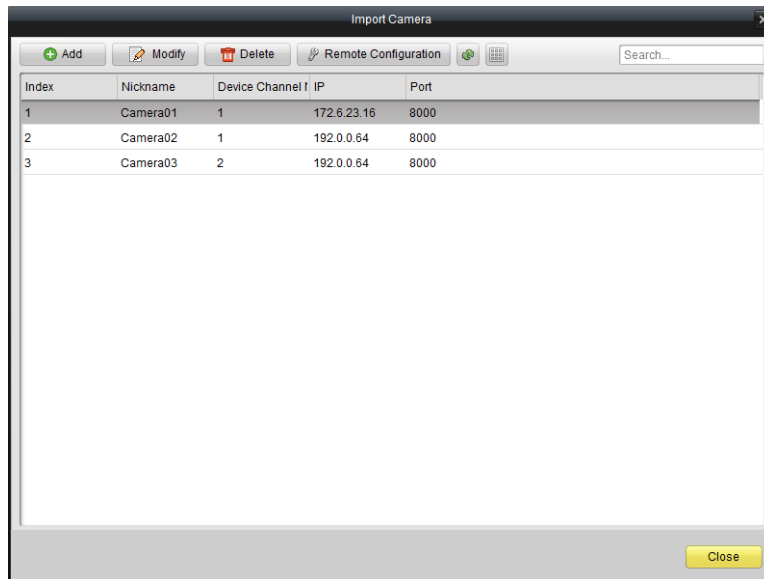
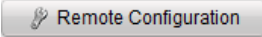


Figure 3.4 Device Configuration

2. Select the camera you want to configure, and click  button to enter the remote configuration interface.

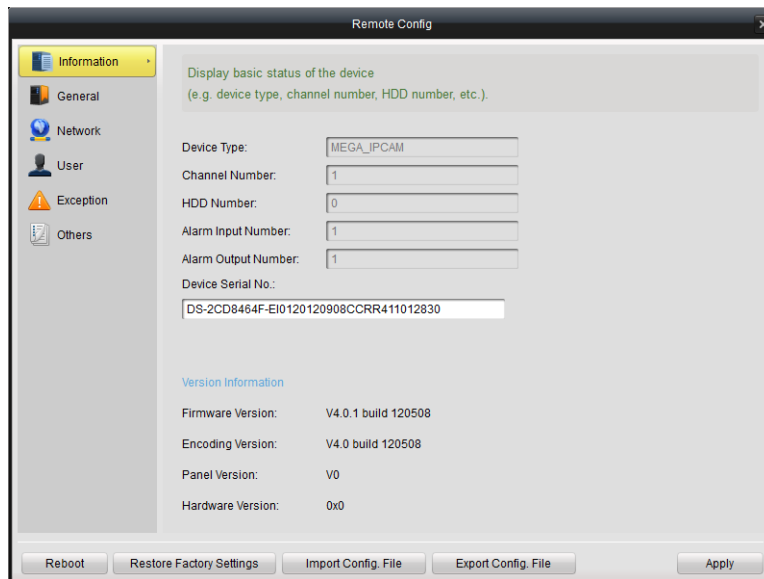


Figure 3.5 Remote Configuration

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- **Information**

In the information page, the basic status of the device is displayed, including device type, channel number, HDD number, alarm I/O number, device serial number, version information, etc.

- **General**

In the general configuration page, you can set basic parameters of the device.

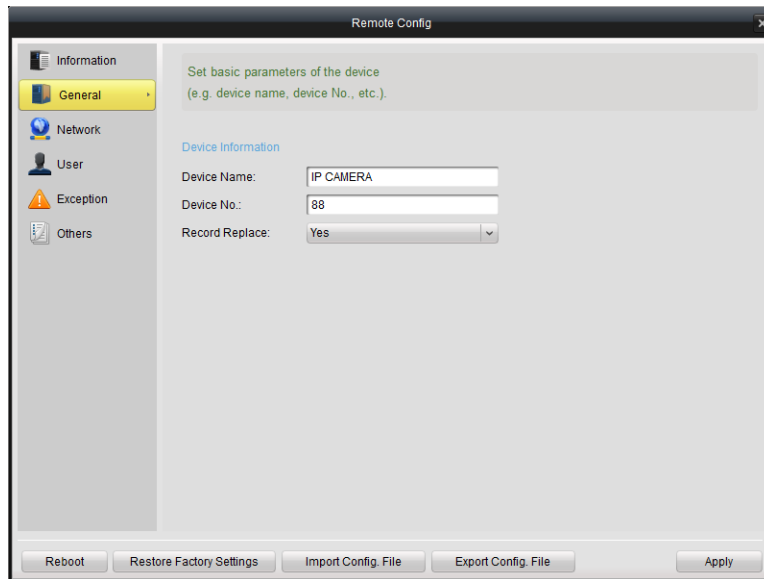


Figure 3.6 Remote Configuration-General

- **Device Name:** You can define the name of the device as desired, which will be displayed on the device list of the software.
- **Device No.:** device number for the remote controller.
- **Record Replace:** overwrite HDDs when HDDs are full.

- **Network**

In the network configuration page, you can configure network parameters of the device. Two tabs are available for general and advance settings.

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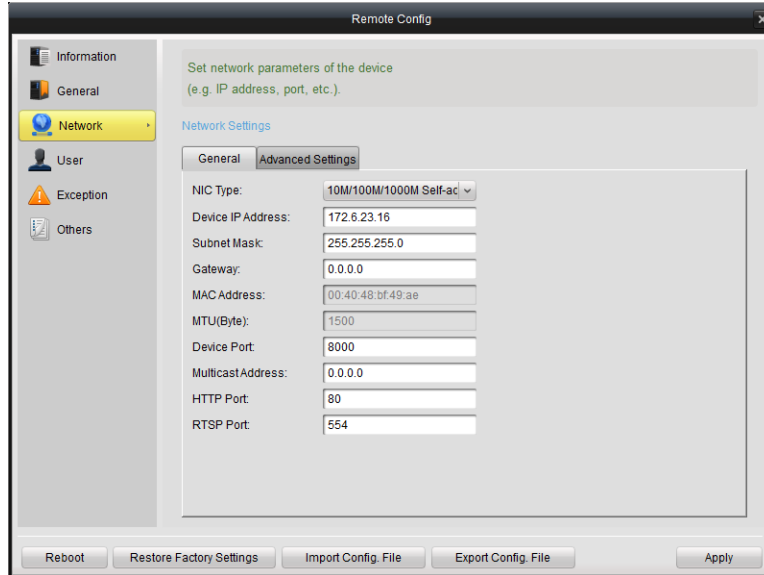


Figure 3.7 Remote Configuration-Network

➤ General Settings:

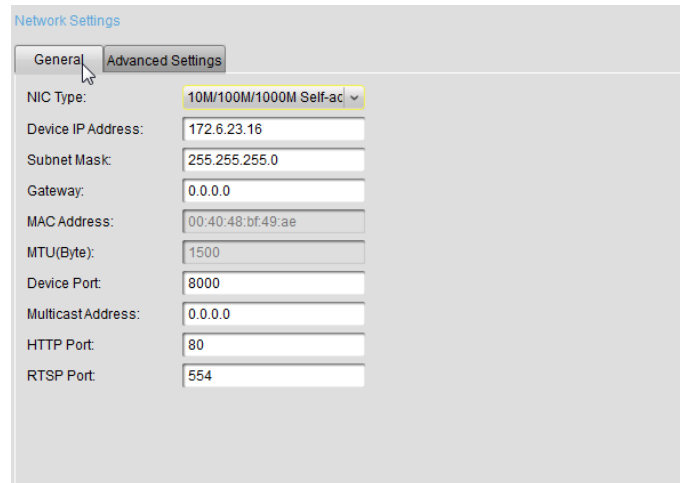


Figure 3.8 Network-General Settings

Please refer to the following table for details of network parameters for general settings:

Description of General Network Parameters

Parameter	Description
NIC Type	Network interface card type of the device
Device IP Address	IP address of the device
Subnet Mask	Subnet mask for the device
Gateway	Default gateway IP for the device
MAC Address	MAC address of the device, and this is a read-only field
MTU	The maximum transport unit, and the default value is 1500
Device Port	The port number of the device, and the default value is 8000
Multicast Address	Multicast address of the device, and please leave this field

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	empty if multicast is not required
HTTP Port	Web servicer port. The default port number is 80
RTSP Port	Real time streaming protocol port. The default port is 554.

➤ Advanced Settings:

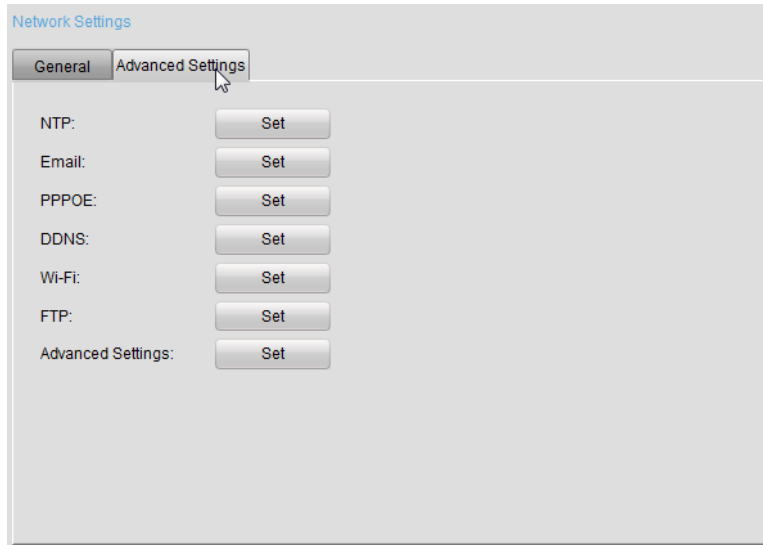


Figure 3.9 Network-Advanced Settings

Please refer to the following table for details of network parameters for advanced settings:

Description of Advanced Network Parameters

Parameter	Description
NTP	Set server address, NTP port, synchronization interval, time zone and GMT for NTP time synchronization.
Email	Email account settings for the device.
PPPOE	Set PPPOE address, user name and password for PPPOE.
DDNS	Set protocol type, server address, user name, password and domain name for DDNS.
Wi-Fi	Set wireless networking related parameters.
FTP	Set FTP server, port, user name, password, etc.
Advanced Settings	Set DNS server address, alarm host IP and Alarm host port.

Note: You can click each  button for the advanced settings.

● User

In the user configuration page, you can create users accounts and assign different permissions for each account.

Note: The users you added, modified or deleted on the Remote Configuration interface are for the device added to the client software.

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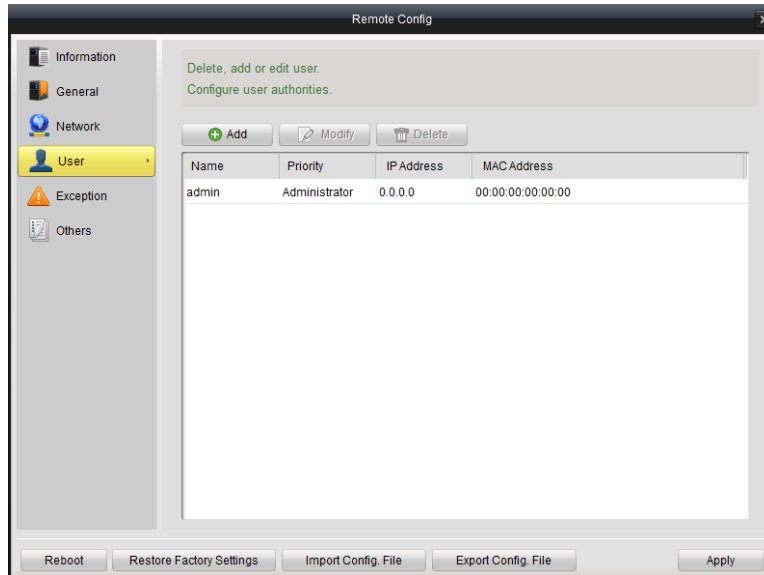


Figure 3.10 Remote Configuration-User

To add a user

1. Click the icon  and the User Configuration dialog box pops up as follows:

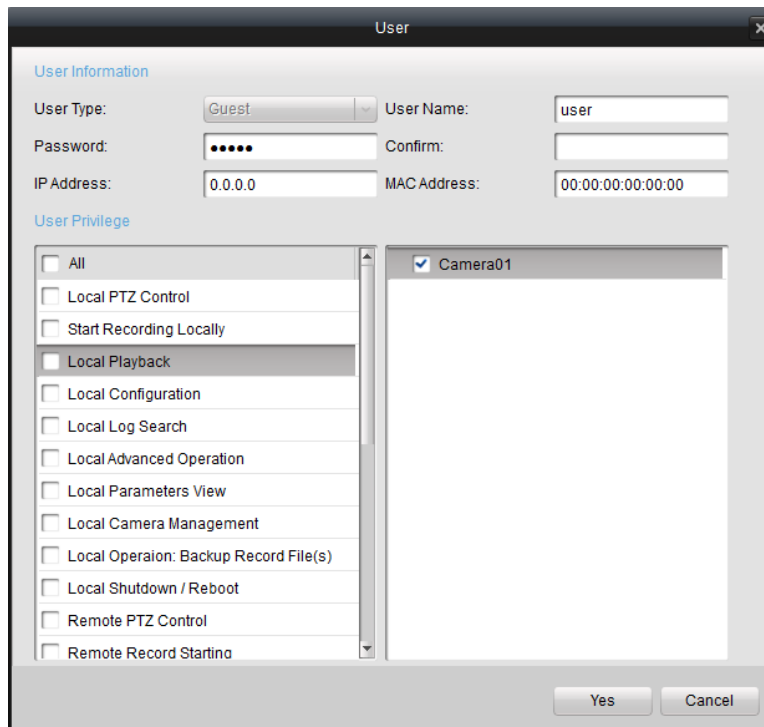
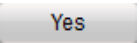


Figure 3.11 User Configuration

2. Input the basic information of the user in the corresponding text field, and the user type is read-only.
3. Select the privilege for the user you created.

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4. Click  to create the user.

To modify the user, select the user on the user list and click the icon .

To delete the user, select the user on the user list and click the icon .

- **Exception**

Select the exception type, and the corresponding alarm triggering mode. You can also select the channel number on the Alarm Output list to trigger the alarm output when an exception occurs.

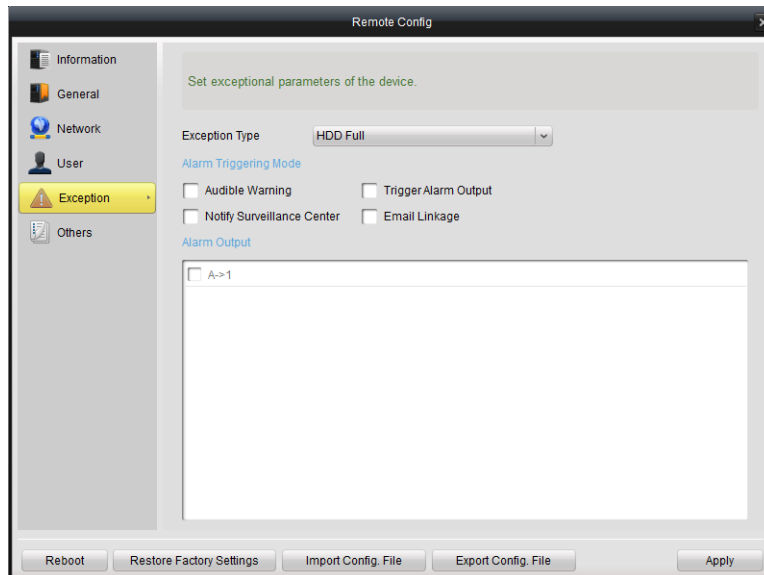
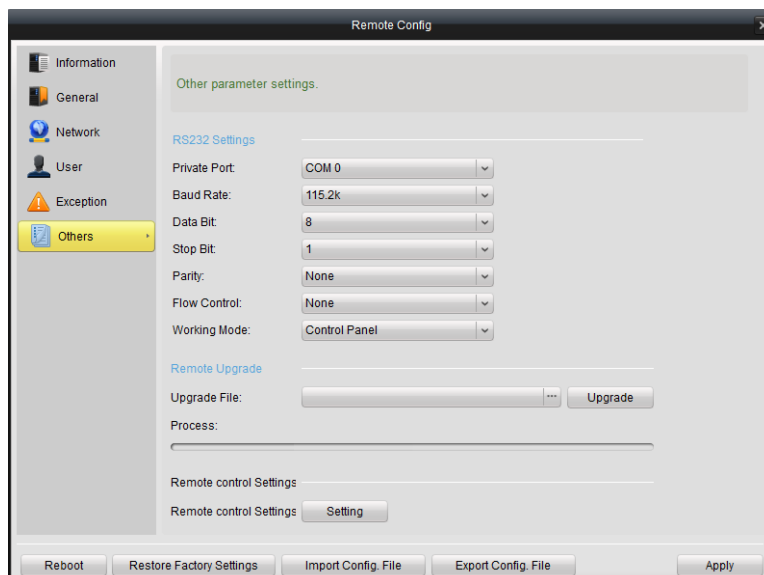


Figure 3.12 Remote Configuration-Exception

- **Others**

In this interface, you can set the RS232 parameters, upgrade the device remotely and do the remote control settings.



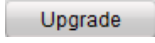
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Figure 3.13 Remote Configuration-Others

➤ **RS232 Settings**

You are allowed to set the RS232 parameters including private port, baud rate, data bit, stop bit, parity, flow control and working mode.

➤ **Remote Upgrade**

Click the icon  to browse and select the upgrade file, and then click  button to start upgrading. The upgrading process will be displayed and a reboot is required after the process is finished.

➤ **Remote Control Settings**

Note: The procedure below is only for the front-end devices supporting the remote control.

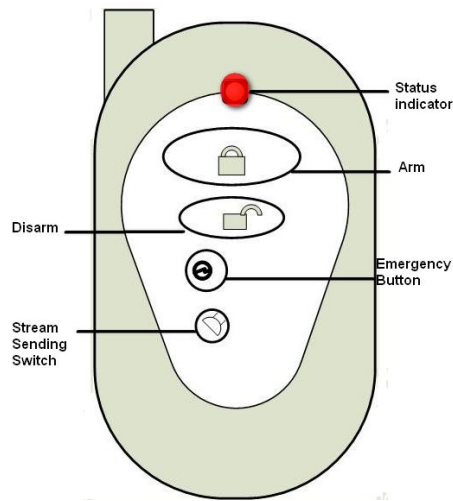


Figure 3.14 Remote Control

Description of Remote Control

Status Indicator	Indicating the status of the remote; when you press the button on the remote, the indicator flicks in red.
Arm	Press the button to arm the camera. In arming status, the alarm function, such as the wireless alarm and the PIR alarm, is enabled.
Disarm	Press the button to disarm the camera. In the disarming status, the alarm linkage is disabled.
Emergency Button	Press the button to trigger the emergency alarm. The emergency alarm has the highest priority.
Stream Sending Switch	Switch for the video stream transmitting. Press the button to stop or start video stream sending. When the video stream is stopped, you can't see the live view or get the record stream on the remote client or browser.

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Steps:

1. Click  on the Others interface and the Remote Control Configuration dialog box pops up shown as follow:

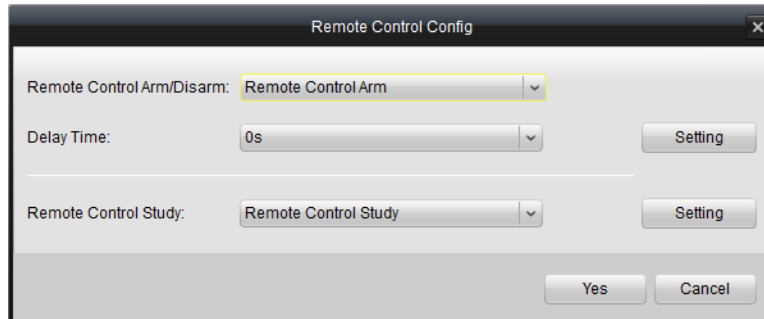
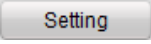


Figure 3.15 Remote Control Configuration

2. Click the icon  and select Remote Control Arm or Remote Control Disarm in the drop-down list to arm or disarm the remote control function.
3. Select the delay time of the remote control, and click  to save the new settings.
4. Set the remote control study mode.

To study the remote control

- 1) Click the icon  and select Remote Control Study from the drop-down list.
- 2) Click  to save the new settings.
- 3) Press any of the buttons on the remote control against the camera to send the signal.

To study the wireless magnetic door detector

- 1) Click the icon  and select Wireless Magnetic Door Detector Study from the drop-down list
- 2) Select the device serial number (1-8) from the drop-down list.

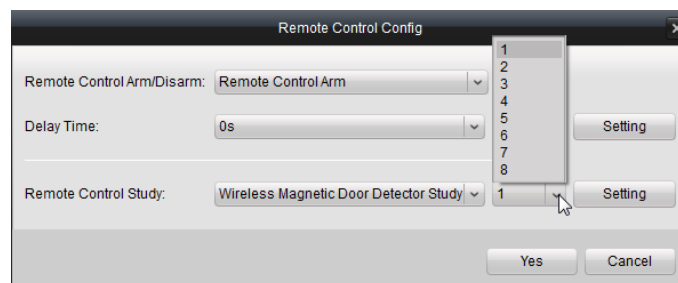
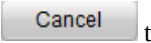


Figure 3.16 Remote Control Study

- 3) Click  to save the new settings.
- 4) Send the signal from the wireless magnetic door alarm device to the camera.
5. Click  to close the dialog box.

3.2.2 Camera Settings

Steps:

1. Click Camera Settings icon on the Configuration panel to enter the camera settings interface.

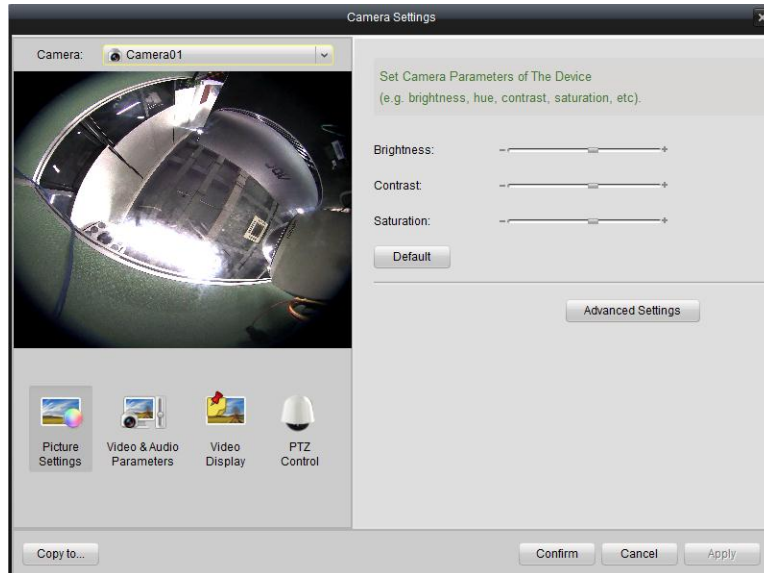
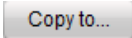


Figure 3.17 Camera Settings

2. Select a camera from the dropdown list in the upper left corner of the interface. The live image of the camera will be displayed on the screen below.
3. Click the icons in the bottom left area to enter each configuration page. You can also click the icon  to copy the configuration to other cameras.

Camera Settings Descriptions

Icons	Description
 Picture Settings	Set camera parameters of the device.
 Video & Audio Parameters	Set audio input, image quality, resolution and other parameters of the camera.
 Video Display	Set camera display parameter. E.g. OSD and privacy area.
 PTZ Control	Set PTZ parameters. E.g. baud rate, protocol, etc.

● Picture Settings

The quality of the picture can be configured in the picture settings interface. You can adjust the brightness, contrast, saturation and hue of the video image.

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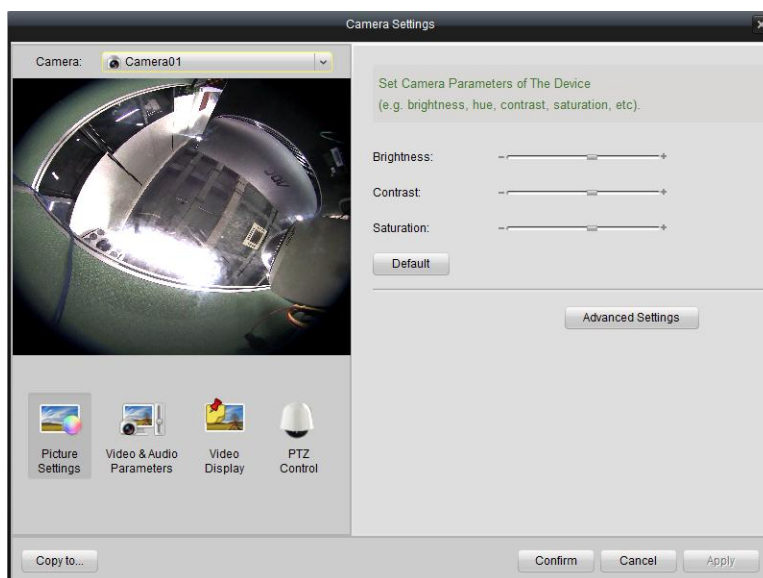


Figure 3.18 Camera Settings-Picture Settings

Click [Advanced Settings](#) button to configure the parameters shown in the figure below:

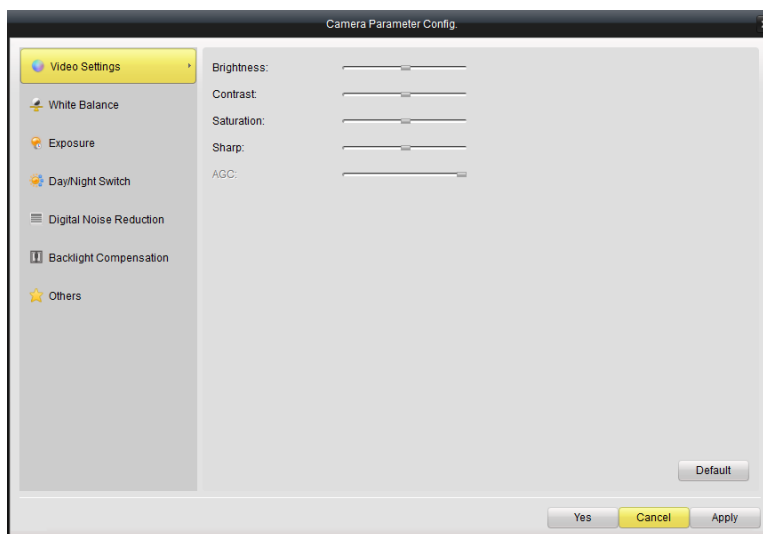


Figure 3.19 Advanced Settings

Description of Advanced Picture Settings Parameters

Parameter	Description
Video Settings	Configure the brightness, contrast, saturation, hue, sharpness and AGC for the video.
White Balance	Configure the white balance mode and three types of modes are selectable: Auto White Balance 1, Auto White Balance 2 and Auto Control.
Exposure	Configure the exposure time and iris type for the device.
Day/Night Switch	Configure the day/night mode and define the filtering time.
Digital Noise	Configure the digital noise reduction mode and DNR level

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Reduction	for the device.
Backlight Compensation	Configure the backlight compensation mode for the device.
Others	Configure parameters including flicker filter, mirror, PTZ and local output.

- **Video & Audio Parameters**

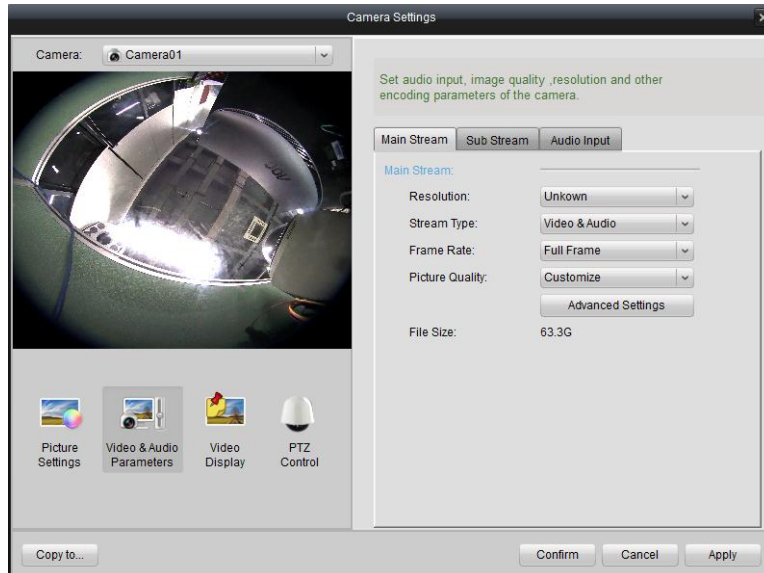


Figure 3.20 Camera Settings-Video Quality

On this page, you can configure parameters for main stream, sub-stream and audio input separately. You can set the resolution, stream type, frame rate, picture quality, audio input type and volume on the main interface.

To configure the bitrate type, qualification level, max bitrate, frame type, I frame interval and other parameters shown in the following figure, please click [Advanced Settings](#) button to enter Advanced Settings interface.

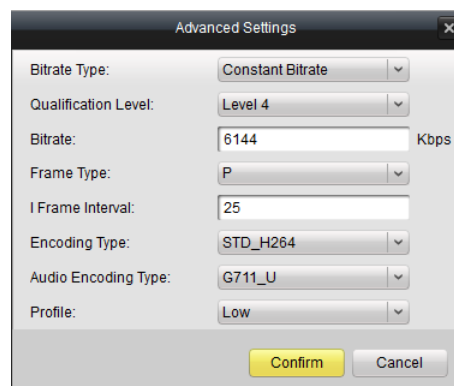


Figure 3.21 Advanced Settings

- **Video Display**

On the video display page, you can define the following parameters for the camera.

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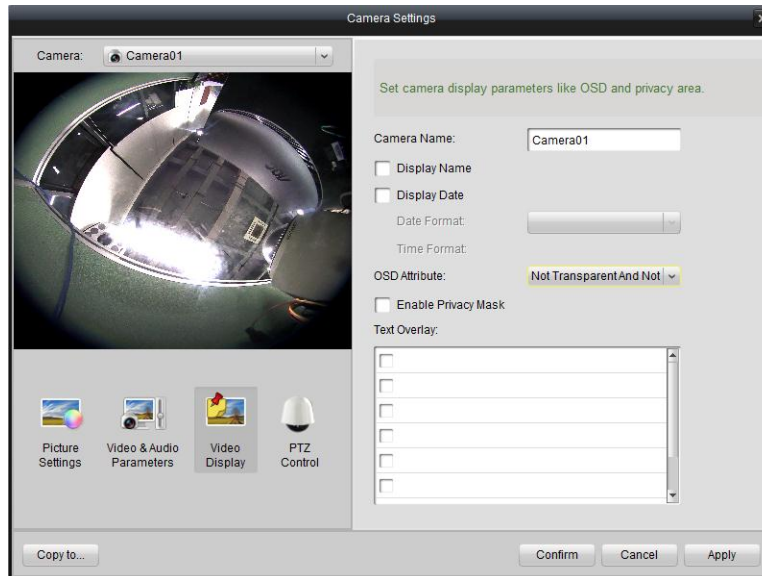


Figure 3.22 Camera Settings-Video Display

Description of Video Display Parameter

Parameter	Description
Display Name	The camera name displayed on the live video.
Display Date	Display the date on the live video and choose the date format and time format.
Enable Privacy Mask	Enable privacy mask function on the live video. You can drag the mouse of the live video to set the mask.
Text Overlay	Edit user-defined text to be displayed on the live video.

You can set privacy masks, configure OSD and define the text locations on the live video. Perform the following steps below to enable the functions.

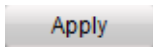
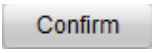
To draw a privacy mask

Steps:

1. Check the Enable Privacy Mask checkbox. Select Draw Privacy Mask Area in the dropdown list under the live view area.
2. Drag the mouse to draw a square on the live video. You can move it to change the location or change the size by enlarging or reducing the area.



Figure 3.23 Privacy Mask

3. You can also click  icon to delete the mask or click  icon to delete all privacy masks.
4. Click  to save the settings or click  to save and close the dialog box.

To configure the OSD and text

Steps:

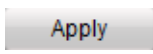
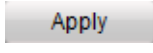
1. Check the checkbox in the Text Overlay section and enter content as desired in the corresponding text field.
2. Click  and you can see the text shown in the left upper corner of the live view area.
3. You can click the OSD or the defined text window and drag the mouse to change its location on the live video



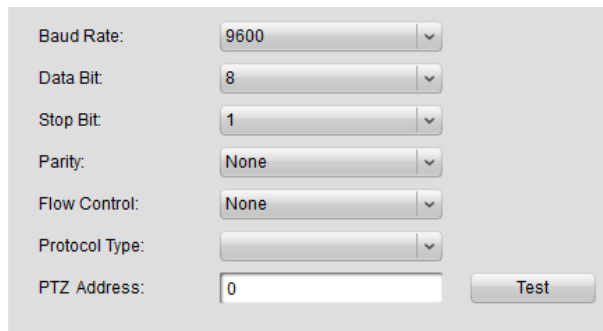
Figure 3.24 Configure the OSD and text

4. Click  again to save the new settings.

● PTZ Parameters Settings

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On the PTZ parameters configuration page, you can specify the PTZ connection parameters, such as baud rate, data bit, stop bit, parity, flow control, PTZ protocol and PTZ address.



Baud Rate:	9600	▼
Data Bit:	8	▼
Stop Bit:	1	▼
Parity:	None	▼
Flow Control:	None	▼
Protocol Type:		▼
PTZ Address:	0	Test

Figure 3.25 PTZ Parameters Settings

Notes:

1. The PTZ parameters should be consistent with the settings of the camera side to ensure valid PTZ control.
2. You can click the button to test the new settings.

Chapter 4 Live View

Before you start:

At least one online camera is required to be added to the client software before live view. For details of the importing camera operation, please refer to *Section 2.2 Wizard for importing device*. And after the successful adding of the camera, the camera list is shown on the left bar on the Main View interface.

Entering the Live View Interface:

Click the main view icon  **Main View** tab, or click View -> Main View on the toolbar to enter the live view interface.

The main view interface is shown in the following figure:

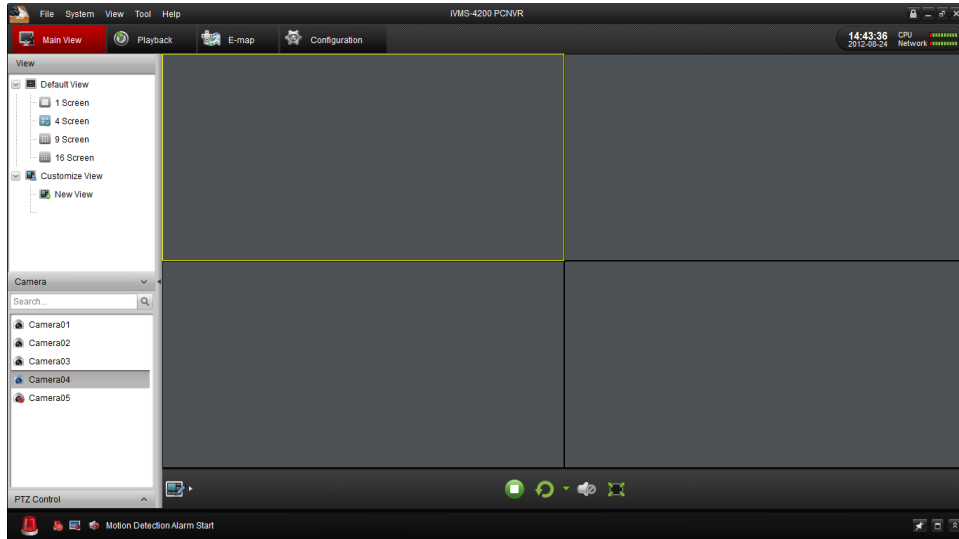


Figure 4.1 Main View

View Types:

Default View: There are 4 kinds of default view:

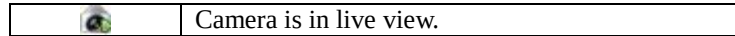
- 1-Screen
- 4-Screen
- 9-Screen
- 16-Screen

Note: You can customize a new view according to your need.

Camera Status:

Icon	Description
	Camera is online and works properly.
	Camera is offline.

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Main View Toolbar:



Button	Name	Description
	Layout	Select different layout modes.
	Stop Live View	Stop the display of all the cameras.
	Auto Switch	Start auto-switching the screen by cameras.
	Volume	Adjust the volume for live audio.
	Full Screen	Display video in full screen mode, click again to restore.

To set the screen layout:

Steps:

1. Place the cursor on the icon , and the icons  are displayed.
2. Click  icon, the following box pops up, you can choose the screen layout by clicking the certain icon.

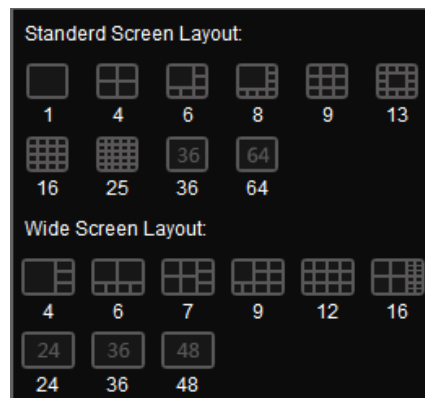


Figure 4.2 Screen Layout

3. You can click the icon  to save a new customized view or click the icon  to save a view as another one.

4.1 Basic Operations in Live View

Start live view for one camera:

To view the live video, drag the camera from the list to the display window, or double-click the camera name after you select one screen.

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Note: You can still change the screen layout after you display the channel on the live view window.

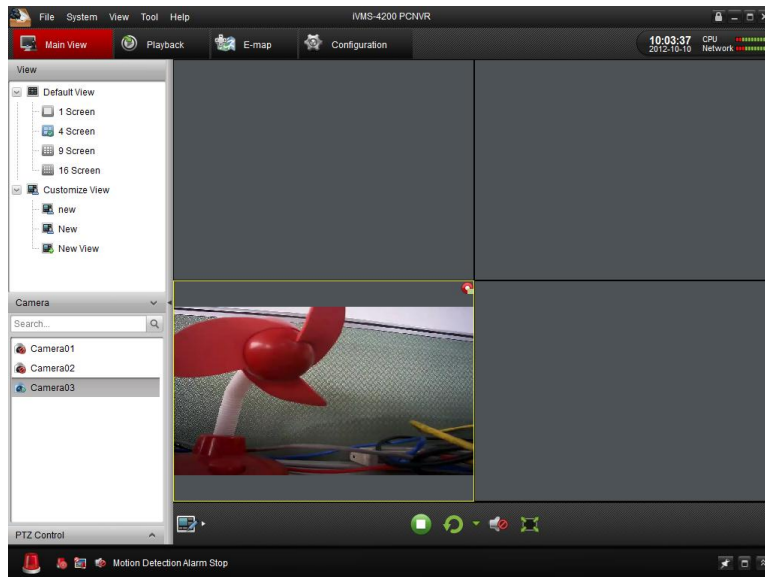


Figure 4.3 Live View

Quick Setting Toolbar in Each Display Window:



Button	Description
	Capture
	Start manual record, click it again to stop.
	Remote instant playback about of current camera, you can choose the playback time.

Note: The screen toolbar needs to be enabled in the system configuration interface. Check the checkbox to enable the toolbar display.

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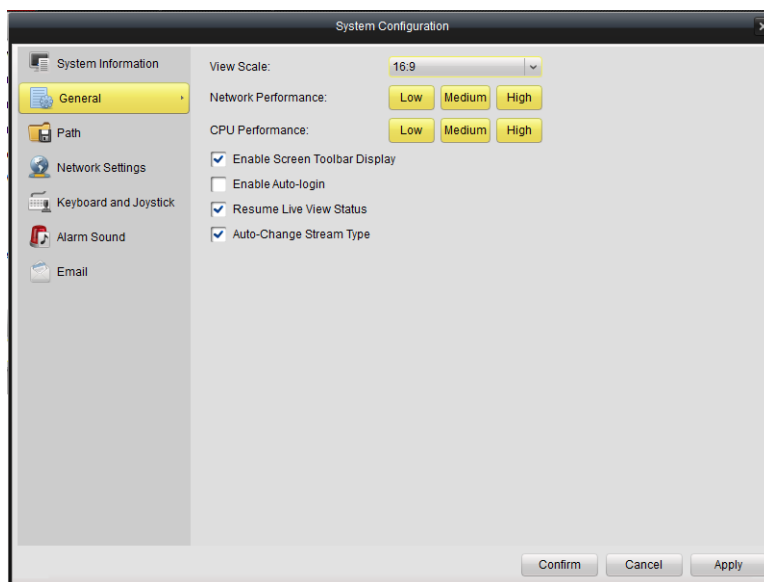


Figure 4.4 System configuration

Right-click Menu in Each Display Window:



Figure 4.5 Right-click Menu

Button	Name	Description
	Stop Live View	Stop Live View
	Capture	Capture
	Print Snapshot	Print Snapshot
	Send Snapshot through email	Send Snapshot through email
	Start Recording	Start manual record, click again to stop.
	Open Window PTZ Control	PTZ control, 8 direction icons will be displayed on the video.

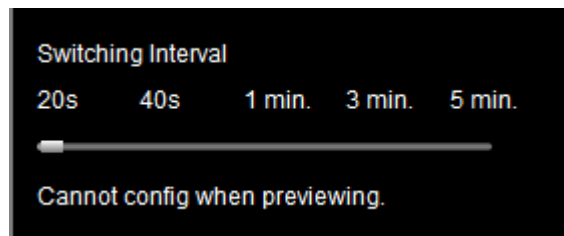
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	Open Digital Zoom	Open Digital Zoom
	Playback	Instant playback about of the current camera.
	Start Two-way Audio	Start two-way audio, click again to stop. The two-way audio can be used for only one camera at one time. When you enable the voice talk of one camera, then the voice talk for other camera is stopped.
	Audio on	Enable/disable live audio.
	Camera Status	Check the camera status.
	Camera Settings	Go to the camera settings interface.
	Full Screen	Display video in full screen mode, click again to quit.

Enable Cycle Live View in Default View:

Steps:

1. Select a certain view in default view mode.
2. Click the icon  next to the .
3. Set the interval for the switching.



4. Click the icon  on the toolbar on the bottom to start the cycle live view.
5. Click the icon  to stop the switching.

Note: Cycle live view in default view mode is the switching of the cameras on the camera list.

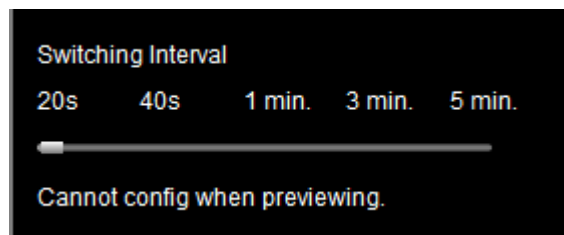
Enable Cycle Live View in Customize View:

Before you start:

Some customized views need to be added to the client software.

Step:

1. Click a view you customized to show it on the screen.
2. Click the icon  next to the .
3. Set the interval for the switching.



- Click the icon  on the toolbar to start the cycle live view.
- Click the icon  to stop the switching.

Note: Cycle live view in customized view mode is the switching of the different customized views.

For instance, there are 3 customized views, choose one view and click  button, the 3 views will take turns to be displayed on the screen with the predefined interval time.

4.2 Capture in Live View

Steps:

- Select the screen.
- Click  icon on the toolbar of the display window.

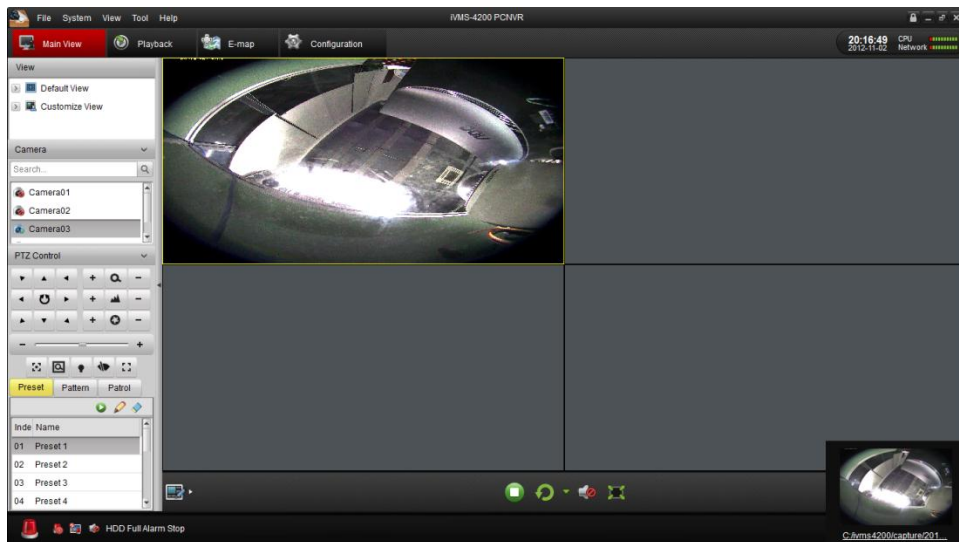


Figure 4.6 Capture

A small window of the captured picture will be displayed to notify you whether the capture is done or not. If the capture is successful, there will be a link to the saving path of the picture, and if not, there will be error messages accordingly.

To view the captured pictures:

- Click the small window of the picture shown on the right bottom after capture.
- Or
- Click File button on the toolbar and select Open Captured File.



Then you can see the exported snapshots are list in the pop-up interface.

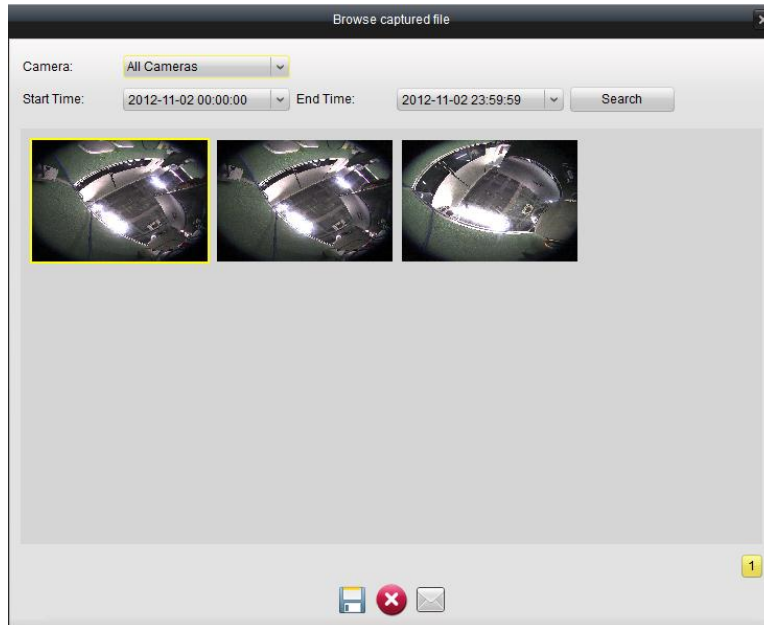


Figure 4.7 Snapshot Explorer

You can click  button to save as the picture to other direction.

You can click  button to delete the selected picture.

You can click  button to send the email attached with the selected picture. The subject and the content can be edited in the pop-up message box.

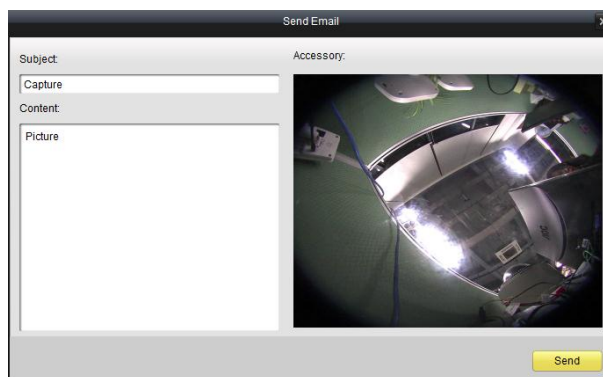


Figure 4.8 Send Email

4.3 PTZ Control in Live View

For the PTZ control, click  icon in the Right-click Menu or click the expand button  in the  banner and the PTZ control panel will be displayed on the left side of the Main View.

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Note: This chapter only shows the operation of the PTZ control, to configure the PTZ parameters please refer to *Section 3.2.2 Camera Settings*.

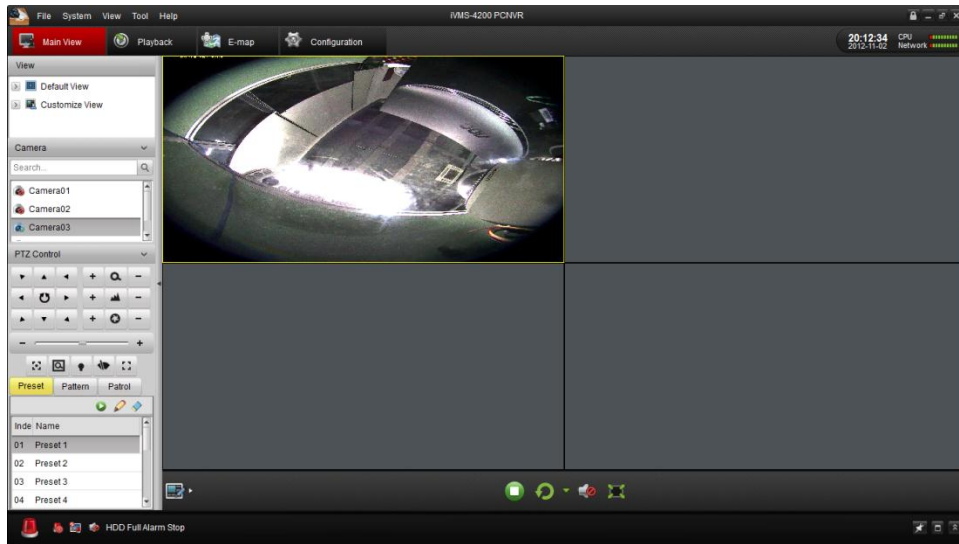


Figure 4.9 Live View



Figure 4.10 PTZ Control Panel

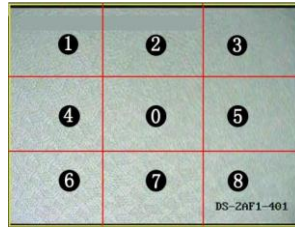
Click on those directional buttons to control the PTZ function, or click the directional buttons on the PTZ control panel. You can also control the PTZ direction by the directional buttons on your keyboard.



Figure 4.11 PTZ Navigation Arrow

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Note: You can also control PTZ by dragging and clicking the mouse on the display screen window.



Description of buttons on PTZ Control Panel:

Button	Description
	Zoom
	Focus
	Iris
	One-Touch Focus
	3D Positioning
	Light
	Wiper
	Lens Initialization
	Direction buttons, click to start/stop auto-scan.
	Speed adjustment for panning and tilting function
	Preset configuration
	Pattern configuration
	Patrol configuration
	Calling preset/pattern/patrol
	Adding and editing function
	Deleting

To add a preset for the PTZ:

Steps:

1. Click the direction buttons to move the PTZ to a desired location.
2. Select a PTZ preset number from the preset list, and then click icon to add the preset and name this PTZ preset. To delete a preset, select the PTZ preset from the preset list, and then click icon to remove it.

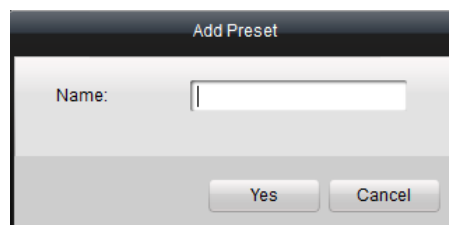


Figure 4.12 Add Preset

To add a pattern for the PTZ:

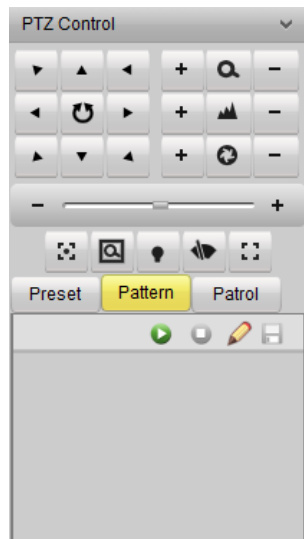


Figure 4.13 Add Pattern

Steps:

1. Click the button **Pattern** to enter the PTZ pattern path setup panel.
2. Select a PTZ pattern path number from the pattern list, click  icon to enter edit mode.
3. Click  to start recording of this pattern path.
4. Use the direction buttons to control the PTZ movement.
5. Click  to stop the pattern recording. Click  to save the pattern path.

To add a patrol path for the PTZ:

Before you start:

Two or more presets for one channel need to be added.

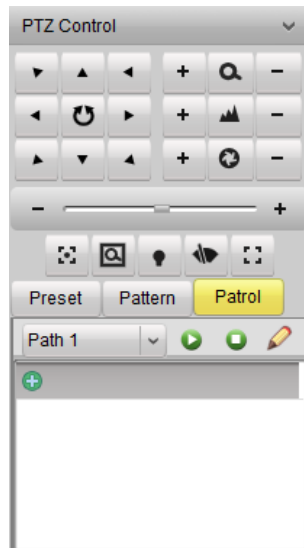


Figure 4.14 Add Patrol

Steps:

1. Click **Patrol** button to enter the PTZ patrol path setup panel.
2. Select a track number from the list.
3. Click  to add a preset (including the dwell time and PTZ speed for the preset) for this patrol path, shown as follows:

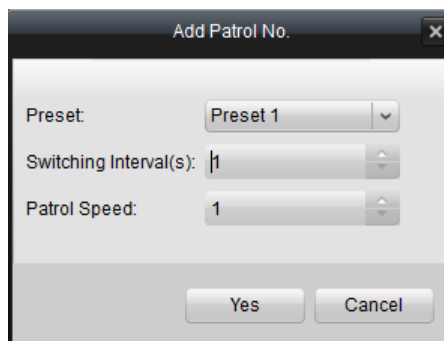


Figure 4.15 Patrol Settings

4. Repeat the above operation to add other presets to the patrol.
5. Click  to call the patrol path or click  to stop calling.
6. Click  to edit a preset in the patrol path.

Notes:

- Up to 16 patrols can be configured.
- The patrol time can be set to 1~255 sec, and the patrol speed to level 1~40.

Chapter 5 Recording

5.1 Schedule Recording

Before you start:

Make sure that the HDD has already been pre-allocated.

Purpose:

Set the record schedule, and then the camera automatically starts/stops recording according to the configured schedule.

Steps:

1. Click the Record Schedule button  to enter configuring recording schedule interface.

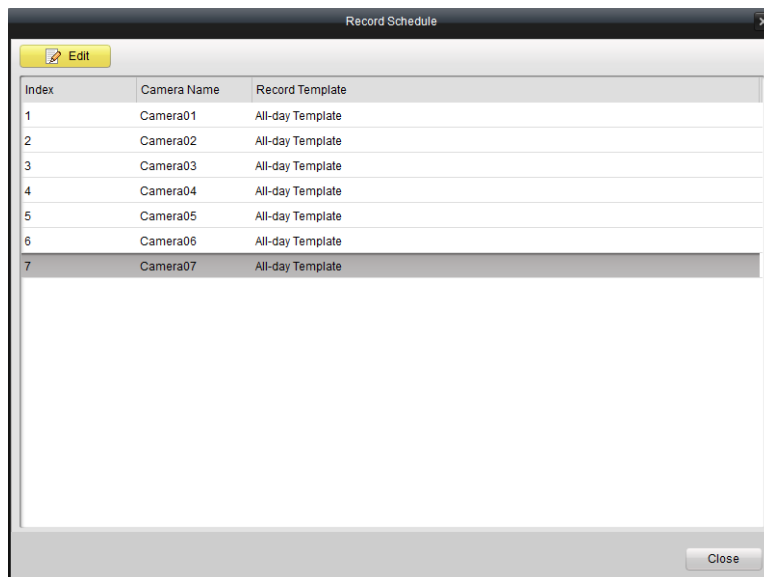


Figure 5.1 Record Schedule Interface

2. Select a channel and click the **Edit** button.

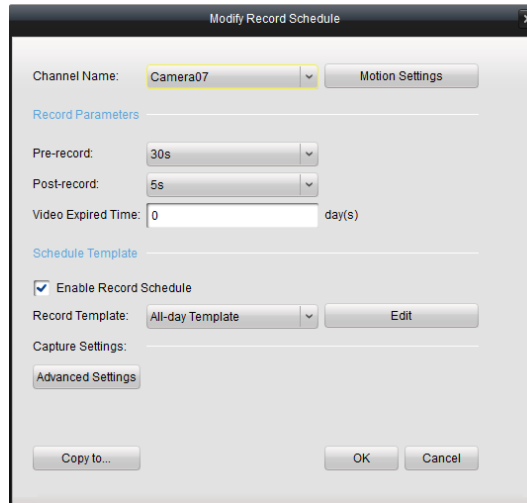


Figure 5.2 Edit Record Schedule Interface

3. You can modify recording parameters including pre-record time, post-record time, and video expired time.

Pre-record: The time you set to record before the scheduled time or event. For example, when an alarm triggered the recording at 10:00, if you set the pre-record time as 5 seconds, the camera records it at 9:59:55.

Post-record: The time you set to record after the event or the scheduled time. For example, when an alarm triggered the recording ends at 11:00, if you set the post-record time as 5 seconds, it records till 11:00:05.

Expired Time: The expired time is the longest time for a record file to be kept in the HDD, if the deadline is reached, the file will be deleted. You can set the expired time to 0, and then the file will not be deleted. The actual keeping time for the file should be determined by the capacity of the HDD.

You can click the **Motion Detection** button to enter motion detection settings interface. Please refer to *Section 6.2 Configuring Motion Detection* for detailed information.

4. Check the checkbox of **Enable Record Schedule**.
5. Select record template in the drop-down list; or you can click **Edit** button to edit the template.

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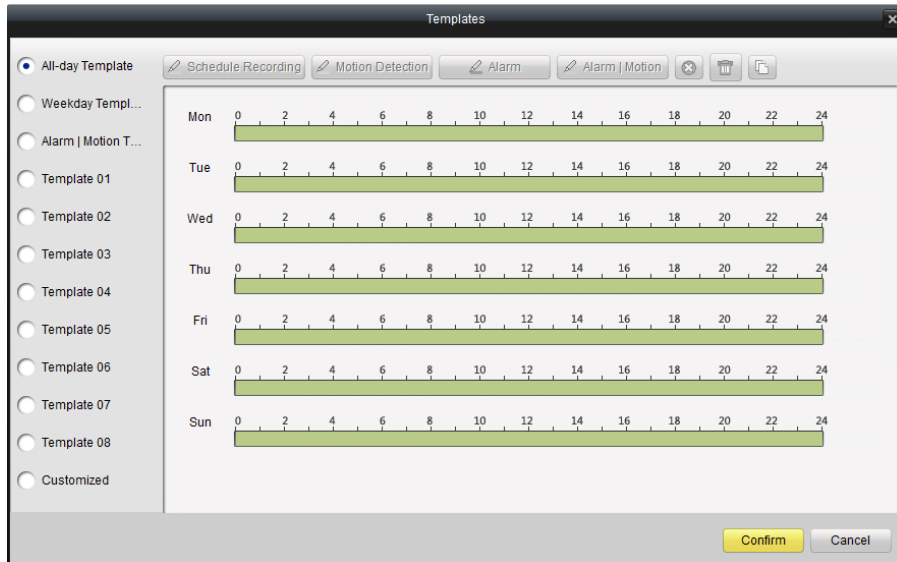


Figure 5.3 Schedule Template Interface

Note: All-day Template, Weekday Template, Alarm Template, and Motion Detection Template are not configurable.

Steps:

- (1) Select a Template name and click **Edit** button on the top right side.

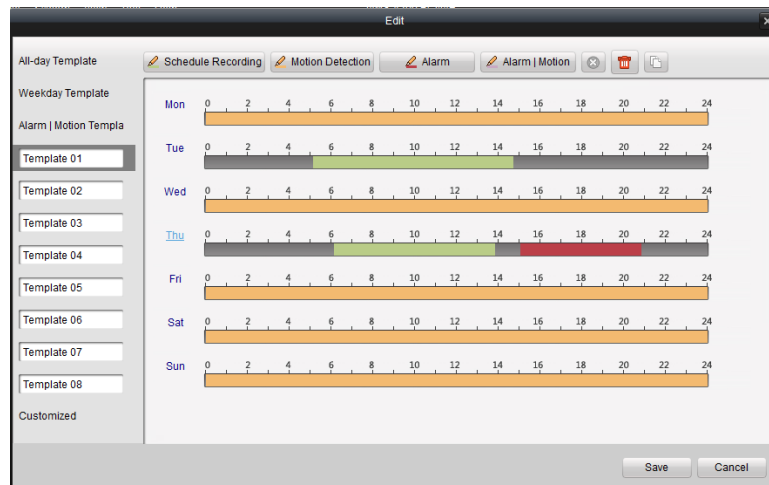
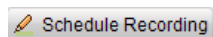
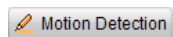


Figure 5.4 Edit Template Interface

- (2) Select a recording type and drag the mouse on the time bar to define the record time window for each day.



means normal scheduled recording. The schedule time bar is green.



means schedule recording for motion detection. The schedule time bar is orange.



means schedule recording triggered by alarm. The schedule time bar is red.

- (3) Click the colored bar to display the specific time schedule. You can also shorten or extend the time period by amending the length of the bar.
- (4) Click the **Save** button to save and exit.
6. Click the **Confirm** button to finish and save schedule settings.
7. Click the **Advanced Settings** button to configure the capture parameters.

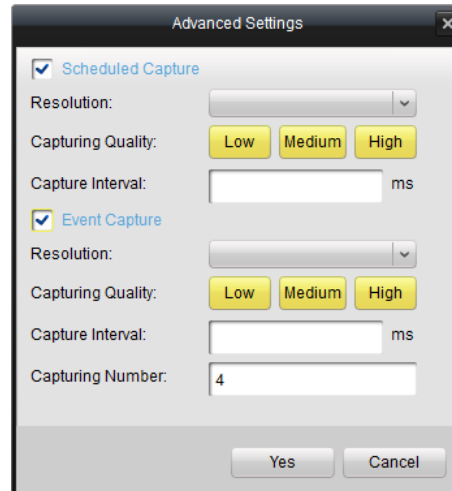


Figure 5.5 Capture Parameters Settings

Steps:

- (1) Configure the scheduled capture parameters including resolution, capture quality and capture interval by checking the checkbox of Scheduled Capture.
- (2) Configure the event capture parameters including resolution, capture quality, capture interval and capturing number by checking the checkbox of Event Capture.
- (3) Click **Yes** button to save the new settings and exit the dialog box.
8. You can click the **Copy to...** button to copy the settings to other channels, and click the **OK** button to save the settings.

5.2 Manual Recording

Manual Recording function allows you to record the live video in the Main View mode.

Steps:

1. In the main view interface, select a camera and double-click it or drag it to the display window to view the live video.
2. Then click the icon  on the toolbar of the display window to start to record the live video.
3. To stop recording, please re-click button.

To change the saving path of the record files and captured pictures, go to the system configuration interface.

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For more details please refer to *Section 10.3 Setting the paths for the manual record, captured picture and Configuration File*.

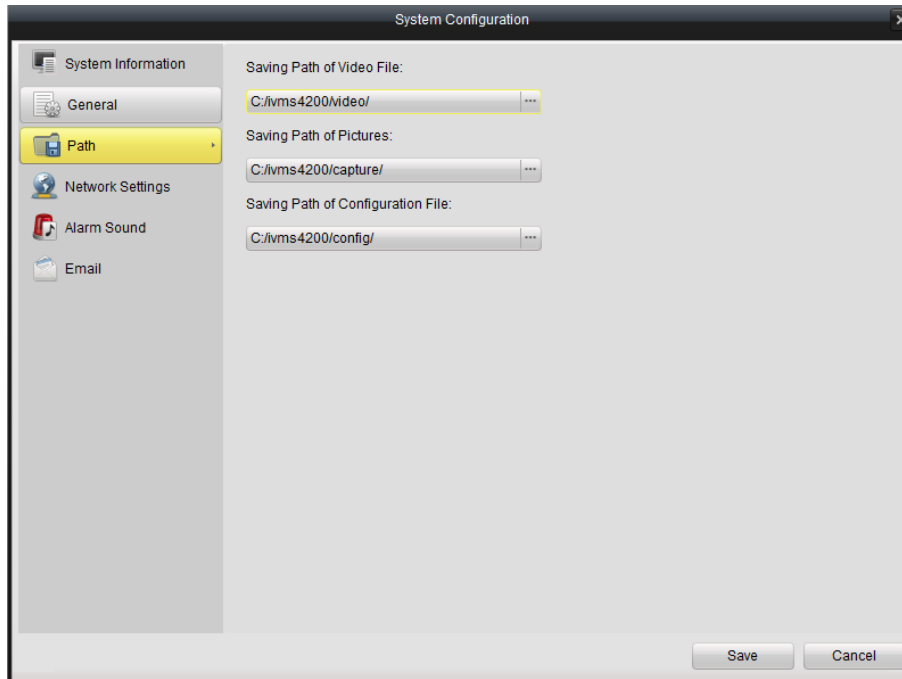


Figure 5.6 File Saving Path Configuration

Chapter 6 Playback

6.1 Normal Playback

Steps:

1. Click  **Playback** tab to enter **Playback** interface.

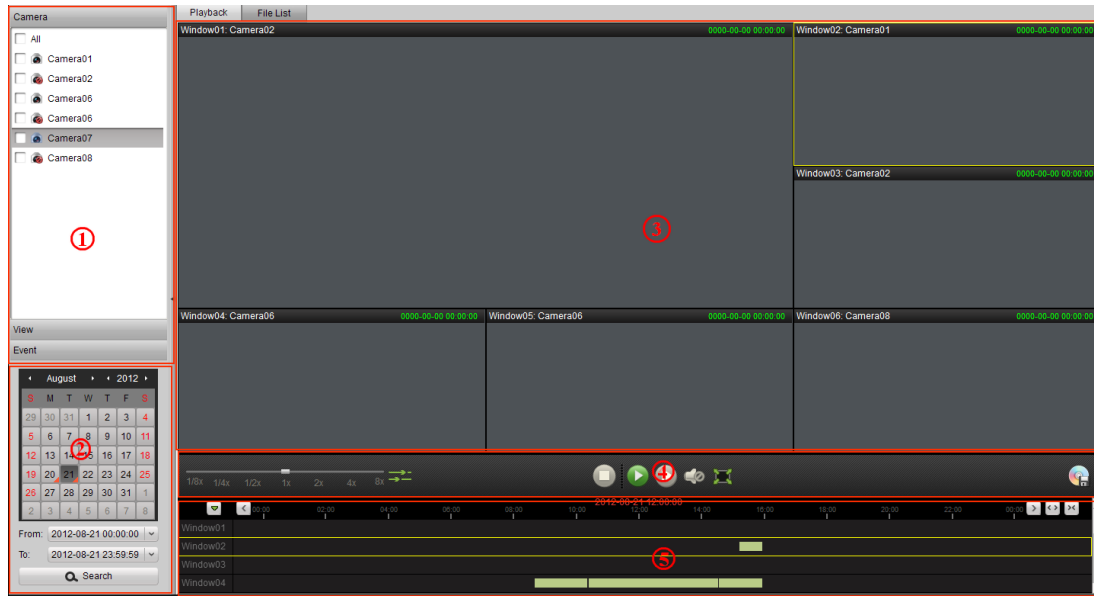


Figure 6.1 Playback Interface

Playback interface descriptions

Number	Description	Number	Description
①	Channel/View/Event List	②	Calendar
③	Playback windows	④	Control Bar
⑤	Time Line		

2. Search the playback files.

You can search files by channel or view mode.

Steps:

- (1) Select channels to play back. Or you can unfold the **View** tab, and select a view mode you configured before.
- (2) Select a date on the calendar.



Figure 6.2 Calendar

Note: If there are record files for that camera in that day. In the calendar, the icon for that day is displayed as . Otherwise it is displayed as .

(3) Select the time period.

From: 2012-08-03 00:00:00

To: 2012-08-03 23:59:59

You can click the button to pop up a window for time selection.

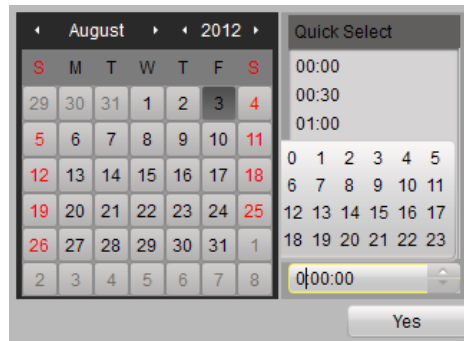


Figure 6.3 Detailed Calendar

(4) Click the **Search** button, then the page will jump to File List automatically.

3. Playback Management.

Playback by recording files

You can select a record file in the File List and click the button to play in the playback interface.

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Playback		File List							
		Export Video File		Stop Export					
☐	Index	Camera	Start Time	End Time	Record Type	Play	Size	Status	
☐	1	Camera01	2012-08-21 15...	2012-08-21 15...	Time		127.6 MB	Waiting	
☐	2	Camera01	2012-08-21 15...	2012-08-21 15...	Time		54.9 MB	Waiting	
☐	3	Camera01	2012-08-21 15...	2012-08-21 15...	Time		25.3 MB	Waiting	
☐	4	Camera06	2012-08-21 08...	2012-08-21 08...	Time		1.3 MB	Waiting	
☐	5	Camera06	2012-08-21 08...	2012-08-21 08...	Time		6.4 MB	Waiting	
☐	6	Camera06	2012-08-21 08...	2012-08-21 08...	Time		6.3 MB	Waiting	
☐	7	Camera06	2012-08-21 08...	2012-08-21 09...	Time		26.4 MB	Waiting	
☐	8	Camera06	2012-08-21 09...	2012-08-21 09...	Time		6.3 MB	Waiting	

Figure 6.4 File List

Playback by time line

Steps:

- (1) Click **Playback** tab to get back to playback interface.
- (2) The timeline indicates the time duration for the record file; you can click on the timeline to show the video of the specific time.

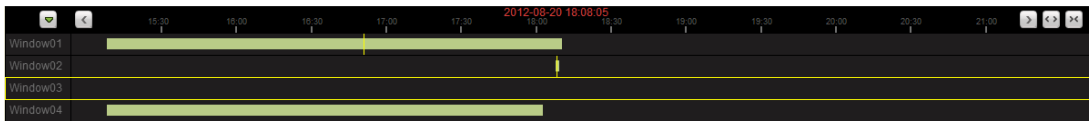
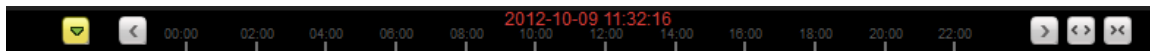


Figure 6.5 Time Line

You can click or to scaling up or scaling down the progress bar.

You can click or to go to the previous or the next time period.



You can also click on the time bar and drag it to change the time.

- (3) You can select video types in the type window by clicking the button. Check the checkbox of video type, including Time, Motion Detection, Alarm, and Manual.

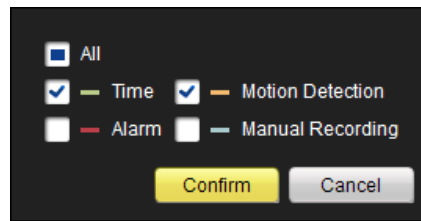
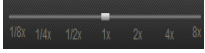


Figure 6.6 Video Type

Control Bar Button Descriptions

Button	Description	Button	Description
	Stop playback of all channels		Turn on/off the audio
	Pause/Play		Full screen

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	Single Frame		Record backup
	Playback speed bar		Open/Close synchronous playback

(4) Click  to play back.

Drag your mouse on the playback window, there will be a control bar for playback, as shown in the figure below.



Figure 6.7 Toolbar

Toolbar button descriptions

Button	Description
	Start/Stop video clips and export
	Capture picture
	Digital zoom

Adjust the playback speed by dragging the playback speed bar .

If the video you clipped needs to be exported, you can refer to *section 7.2 Exporting Video Clips* for detailed information of exporting video clips.

6.2 Event Playback

Purpose:

Play back record files on one or several channels searched by restricting event type.

Steps:

1. Click  Playback button to enter **Playback** interface.
2. Unfold the Event tab and select Motion Detection or Alarm Input.

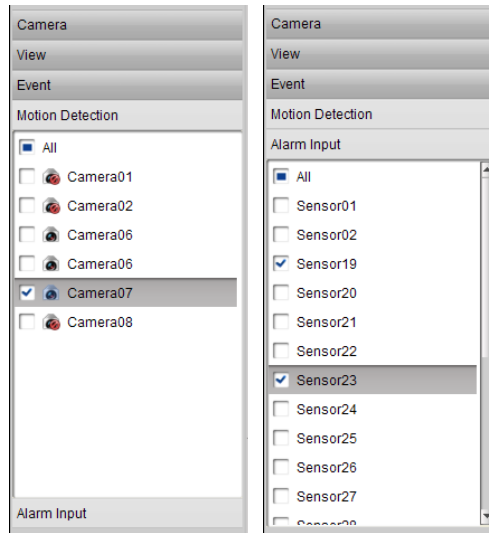


Figure 6.8 Event Tab

3. Search the playback files.

Steps:

- (1) Check the checkbox of the camera or alarm input.
- (2) Select a date on the calendar. Please refer to step (2) of the section 6.1 Normal Playback step2.
- (3) Select a time period. Please refer to step (3) of the section 6.1 Normal Playback step2.
- (4) The page will jump to Event List interface automatically.

☐	Index	Time	Event Type	Event Source	Triggered camera	Play	Status
☐	1	2012-08-21 08:00:00	Motion Detection	Camera07	Camera07		Waiting
☐	2	2012-08-21 08:00:00	Motion Detection	Camera07	Camera07		Waiting
☐	3	2012-08-21 08:00:00	Motion Detection	Camera07	Camera07		Waiting
☐	4	2012-08-21 08:00:00	Motion Detection	Camera07	Camera07		Waiting
☐	5	2012-08-21 08:00:00	Motion Detection	Camera07	Camera07		Waiting
☐	6	2012-08-21 08:00:00	Motion Detection	Camera07	Camera07		Waiting
☐	7	2012-08-21 08:00:00	Motion Detection	Camera07	Camera07		Waiting

Figure 6.9 Event List

4. Click  to play the specific file in the playback interface.

6.3 Simultaneous Playback

Note: PCNVR supports 16 channels simultaneous playback at the same time.

Steps:

1. Click  Playback tab to enter Playback Interface.

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2. Search for recording files. Please refer to step 2 of section 6.1 Normal Playback.
3. Select a channel and click on the timeline to show the video of the specific time.
4. Click the  button to start simultaneous playback.

6.4 Instant Playback

Steps:

1. Go to Main View panel; drag your mouse on the live view window to enable the toolbar shown as below:



Figure 6.10 Live View toolbar

2. Click the  button, there will be a list of time period.
30s, 1 min, 3 min, 5 min, 8 min, and 10 min are selectable.
3. Select a time period to start instant playback.

Example: If the current time is 09:30:00, and you select 3 min, then the instant playback will start from 09:27:00.

When the instant playback is on, drag the mouse on the playback window and the toolbar will display, as shown in the figure below.



Figure 6.11 Instant playback toolbar

Instant playback toolbar button descriptions

Button	Description	Button	Description
	Pause		Fast Forward
	Stop		Single Frame
	Slow Forward		
	Capture		Start/Stop Recording
	Open/Close Audio		Mode Switching

4. You can click the  button to get back to live view window.

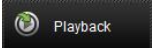
Chapter 7 Record File Exporting

7.1 Exporting Record Files

Purpose:

You can export the recording files to your personal directory. And there are two exporting methods supported.

Steps:

1. Click  to enter **Playback** interface.
2. Search for the recording files. Please refer to step2 of *Section 6.1 Normal Playback*.

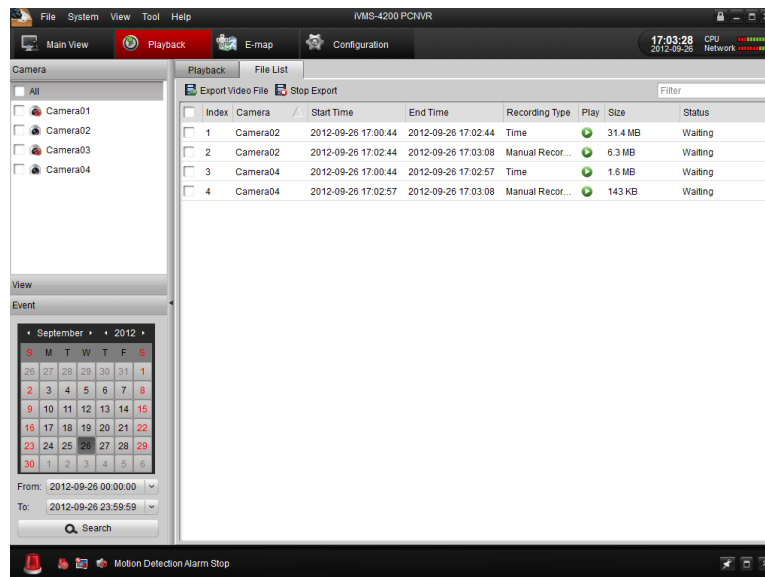
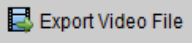
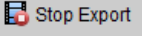


Figure 7.1 Export Video File

3. Check the checkbox of the filename and click  to start export. The status of exporting will change to *Downloading*.

You can click the  button to stop downloading.

4. The status will change to *Download Completed* when the downloading is finished.

Playback		File List					
		Export Video File		Stop Export		Filter	
☐	Index	Camera	Start Time	End Time	Recording Type	Play	Status
☐	1	Camera02	2012-09-26 17:00:44	2012-09-26 17:02:44	Time		Download Completed
☐	2	Camera02	2012-09-26 17:02:44	2012-09-26 17:03:08	Manual Recor...		Download Completed
☐	3	Camera04	2012-09-26 17:00:44	2012-09-26 17:02:57	Time		Download Completed
☐	4	Camera04	2012-09-26 17:02:57	2012-09-26 17:03:08	Manual Recor...		Download Completed

Figure 7.2 Downloading Status

Note: The default saving file path can be modified in the system configuration interface. You can refer to section 10.3 to get more information.

You can also click  on the playback interface to backup the record file by setting its start and end time.

7.2 Exporting Video Clips

You can export video clips when playing back.

Steps:

1. Click the  button on playback toolbar to start video clipping.
2. Click it again to stop the operation.
3. The exporting file will be saved by default. There will be note on the bottom right of saving path and name.

You can click the link to enter the directory.

Note: The default saving path can be modified in the system configuration interface. You can refer to section 10.3 to get more information.

Chapter 8 Event Management and Alarm I/O Settings

8.1 Alarm Settings

8.1.1 Manually turn on/off alarm output

Click Tool in the toolbar, and select **I/O Control** in the drop-down list to enter I/O Control interface.

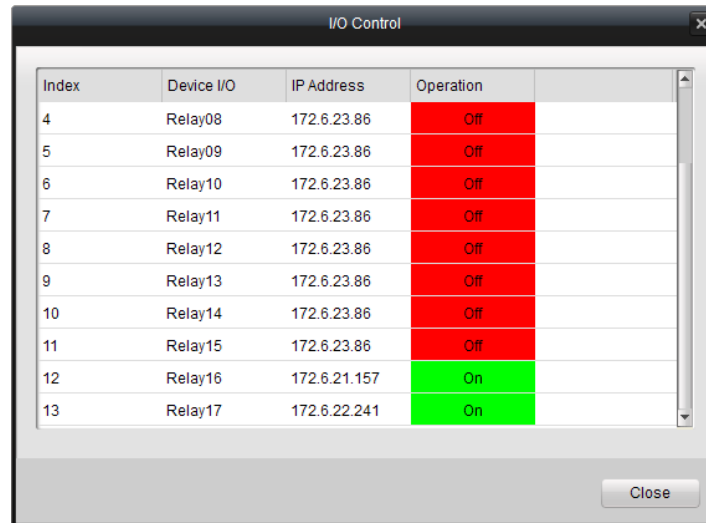


Figure 8.1 I/O Control Interface

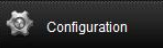
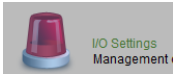
You can click the On/Off button to turn on/off the alarm output manually.

8.1.2 Alarm Parameter settings

Purpose:

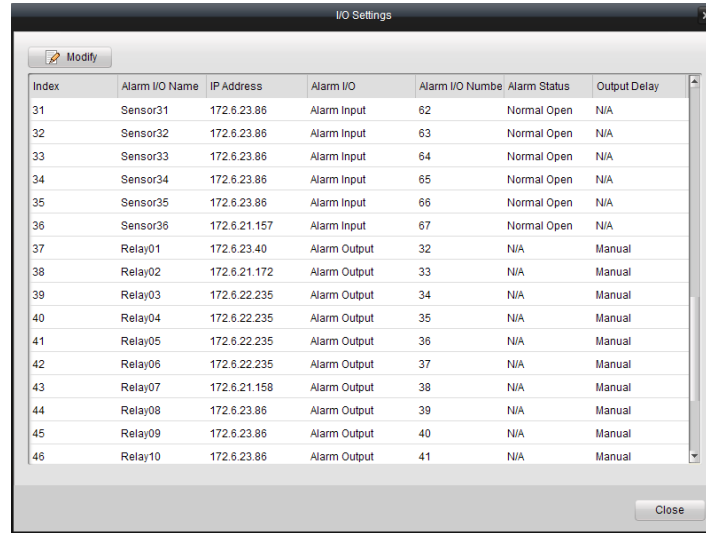
Configuring parameters of an external sensor alarm or relay alarm.

Steps:

1. Click the  Configuration button to enter configuration interface.
2. Click I/O Settings button  to manage alarm I/O parameters.

You can see the alarm I/O information in the pop up window.

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The screenshot shows the 'I/O Settings' window with a 'Modify' button at the top left. The main area contains a table with the following data:

Index	Alarm I/O Name	IP Address	Alarm I/O	Alarm I/O Number	Alarm Status	Output Delay
31	Sensor31	172.6.23.86	Alarm Input	62	Normal Open	N/A
32	Sensor32	172.6.23.86	Alarm Input	63	Normal Open	N/A
33	Sensor33	172.6.23.86	Alarm Input	64	Normal Open	N/A
34	Sensor34	172.6.23.86	Alarm Input	65	Normal Open	N/A
35	Sensor35	172.6.23.86	Alarm Input	66	Normal Open	N/A
36	Sensor36	172.6.21.157	Alarm Input	67	Normal Open	N/A
37	Relay01	172.6.23.40	Alarm Output	32	N/A	Manual
38	Relay02	172.6.21.172	Alarm Output	33	N/A	Manual
39	Relay03	172.6.22.235	Alarm Output	34	N/A	Manual
40	Relay04	172.6.22.235	Alarm Output	35	N/A	Manual
41	Relay05	172.6.22.235	Alarm Output	36	N/A	Manual
42	Relay06	172.6.22.235	Alarm Output	37	N/A	Manual
43	Relay07	172.6.21.158	Alarm Output	38	N/A	Manual
44	Relay08	172.6.23.86	Alarm Output	39	N/A	Manual
45	Relay09	172.6.23.86	Alarm Output	40	N/A	Manual
46	Relay10	172.6.23.86	Alarm Output	41	N/A	Manual

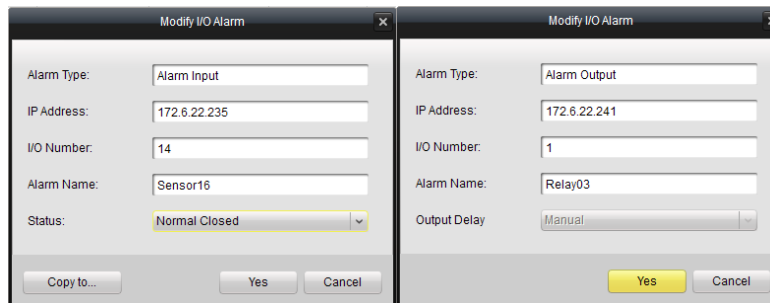
A 'Close' button is located at the bottom right of the window.

Figure 8.2 I/O Settings Information

Alarm Parameters Descriptions

Parameter	Description
IP Address	IP address of the alarm I/O channel.
Alarm Name	Define a name for the alarm I/O channel.
Alarm Status (Only for alarm input)	“Normal Open” stands for normally open status and “Normal Closed” stands for normally closed status.
Output Delay (Only for alarm output)	The delay time for the alarm output.

3. Select an alarm channel and click **Modify** to set parameters.



The left screenshot shows the 'Modify I/O Alarm' dialog box with the following values: Alarm Type: Alarm Input, IP Address: 172.6.22.235, I/O Number: 14, Alarm Name: Sensor16, Status: Normal Closed. The right screenshot shows the same dialog box with: Alarm Type: Alarm Output, IP Address: 172.6.22.241, I/O Number: 1, Alarm Name: Relay03, Output Delay: Manual. Both dialogs have 'Copy to...', 'Yes', and 'Cancel' buttons at the bottom.

Figure 8.3 Modify Alarm I/O

4. Edit the parameters and click the **Yes** button to save it.
You can click **Copy to...** button to copy the settings to other alarm channels.
Check the checkbox of alarm, and click the **Yes** button to copy the settings.

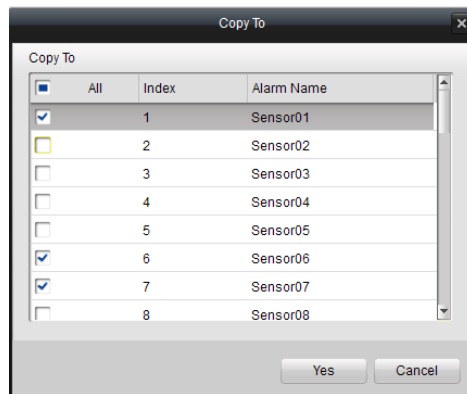


Figure 8.4 Copy To

Note: The Copy to function is only supported with sensor alarms.

8.1.3 Alarm Schedule and Handlings Settings

Steps:

1. Click the event management button  to enter event settings interface.

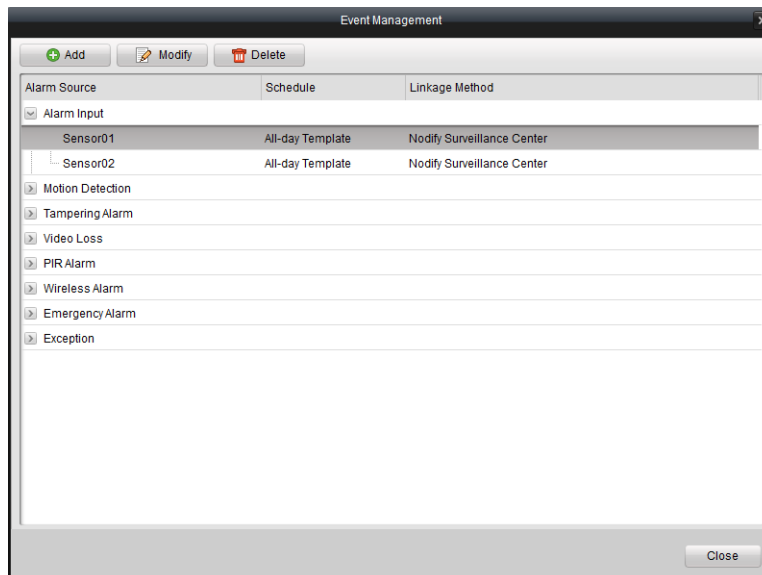


Figure 8.5 Event Settings Interface

2. Unfold the Alarm Input list, and select an alarm input channel.
You can see the name, arming schedule, and linkage method of the alarm in the list.
3. Click the **Modify** button or double click on the channel number to enter alarm settings interface.

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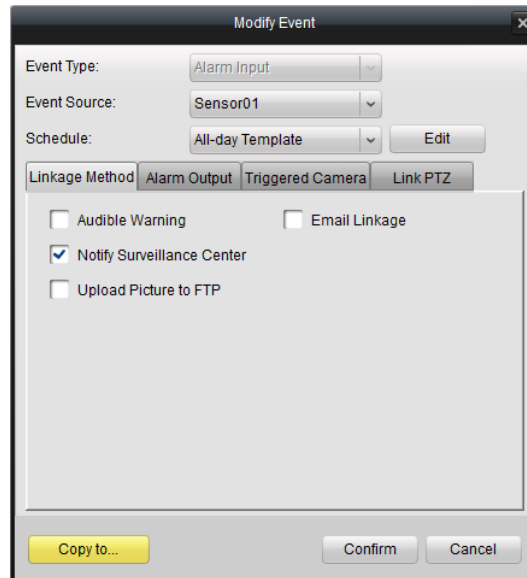


Figure 8.6 Alarm Settings Interface

You can select an alarm input channel in the **Event Source** drop-down list.

4. Click **Edit** button to edit the arming schedule.

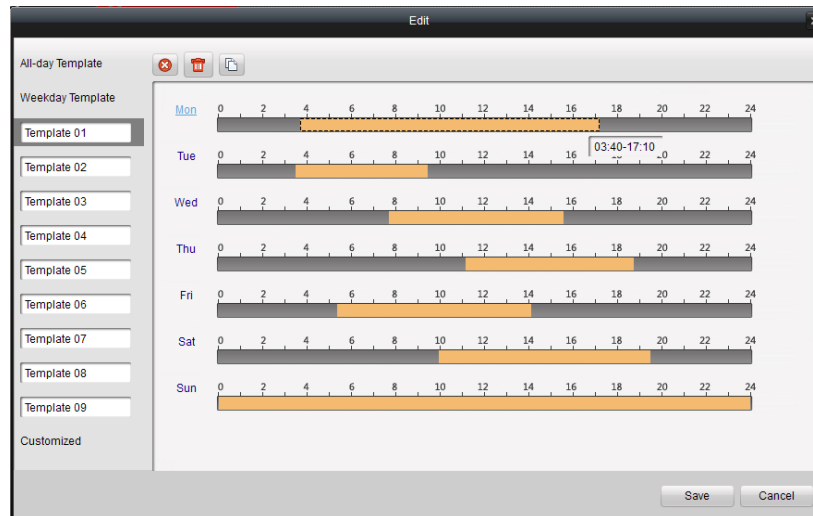


Figure 8.7 Arming Schedule Editing

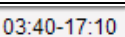
Steps:

- (1) Select a template name and click the **Edit** button to enter schedule editing interface.
- (2) Drag the mouse on the time bar to define the record time window for each day.
- (3) Click the colored bar to display the specific time schedule. You can also shorten or extend the time bar by amending the length of the bar.

Schedule Button Description

Button	Description
	Delete the selected schedule

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	Clear all the record schedules of the selected template
	Copy the selected schedule section to other day (s)
	Specific time of the colored bar.

- (4) Click **Save** to save the settings.
- (5) Click **Confirm** to finish and save schedule settings.
5. You can modify the Linkage Method, Alarm Output, Triggered Camera and Link PTZ.

Handling Descriptions

Parameter	Description
Linkage Method	Trigger the linkage methods including audible warning, notify surveillance center, upload picture to FTP and email linkage when the event occurs.
Alarm Output	Activate one or multiple channels of alarm output when alarm is triggered. Users need to specify the corresponding alarm output channel (s) in Alarm Output Settings.
Triggered Camera	Trigger the camera to record.
Link PTZ	Trigger a PTZ Linking action, including preset, patrol or pattern.

Configuring Linkage Method

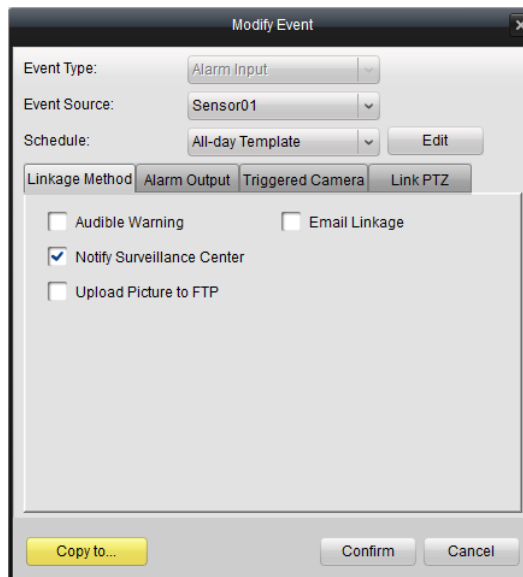


Figure 8.8 Configuring Linkage Method

Check the checkbox of linkage method to enable it.

Configuring Alarm Output

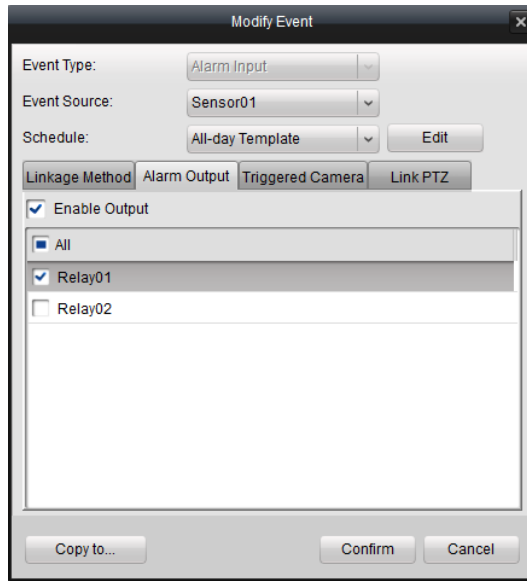


Figure 8.9 Configuring alarm output

- 1) Check the checkbox of Enable Output.
- 2) Check the checkbox of alarm output channel name.

Configuring Triggered Camera

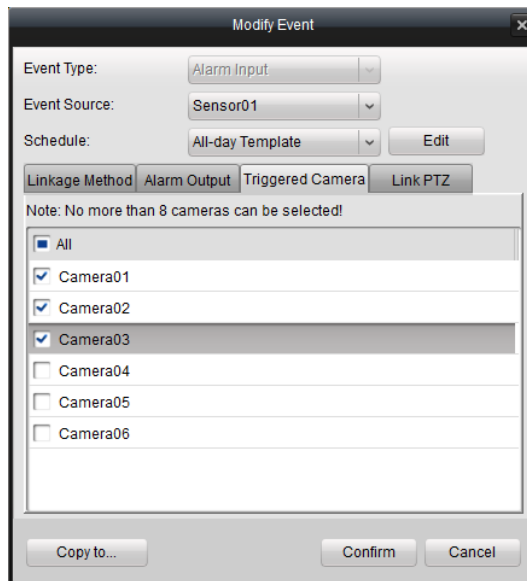


Figure 8.10 Configuring triggered camera

Check the checkbox of channel name to trigger it.

Note: Up to 8 channels can be triggered at one time.

Configuring Link PTZ

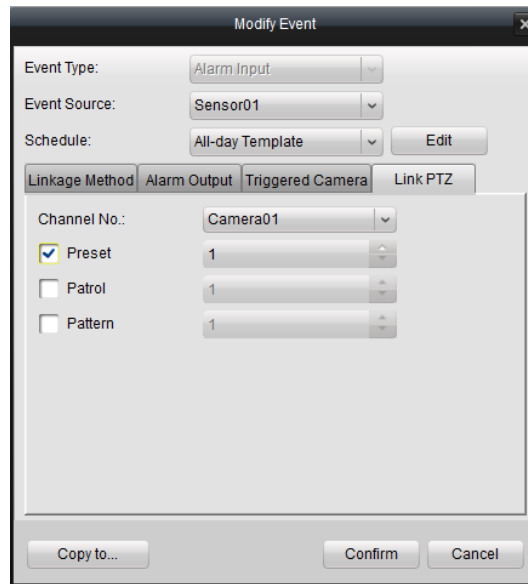


Figure 8.11 Configuring PTZ link

- 1) Select a channel number from drop-down list.
- 2) Check the checkbox of PTZ action type, and select the number.

Note: Only one PTZ linking type can be triggered at one time.

6. Click **Confirm** to save and exit settings.

You can click **Copy to...** to copy the settings to other alarms.

8.2 Configuring Motion Detection

Steps:

1. Click Event Management button  to enter event settings interface.

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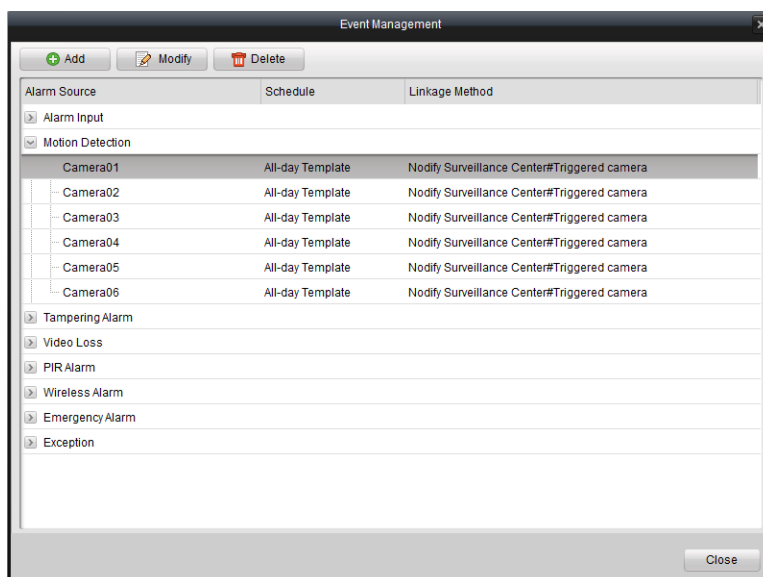


Figure 8.12 Camera List of Motion Detection

2. Unfold the Motion Detection list to select a channel, and click **Modify** button or double click on the channel number to enter motion detection settings interface.

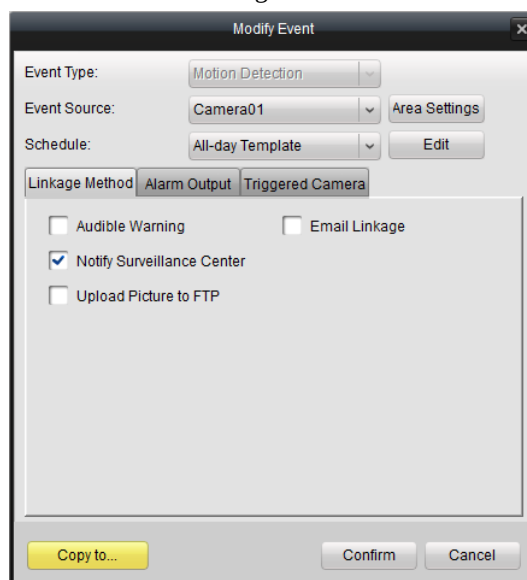


Figure 8.13 Motion Detection Settings

3. Click **Area Settings** to modify detection area and sensitivity.



Figure 8.14 Areas and Sensitivity Settings

Steps:

- (1) Click and drag your mouse to draw an area.
- (2) Drag the  bar to adjust the sensitivity.

Area Settings Button Description

Button	Description
	Set the area to full screen.
	Delete the selected area.
	Delete all areas.
	Sensitivity bar.

- (3) Click the **Confirm** button to save and exit settings.
4. Set arm schedule. Please refer to *Section 8.1.3 Alarm Schedule and Handlings Settings* step 4 for details.
5. Set handling method for alarm, including Linkage Method, Alarm Output, and Triggered Camera. Please refer to *Section 8.1.3 Alarm Schedule and Handlings Settings* step 5 for details.
You can click **Copy to...** to copy the settings to other channels.
6. Click the **Confirm** button to save and exit settings.

8.3 Configuring Tampering Alarm

Steps:

1. Click Event Management button  to enter event settings interface.

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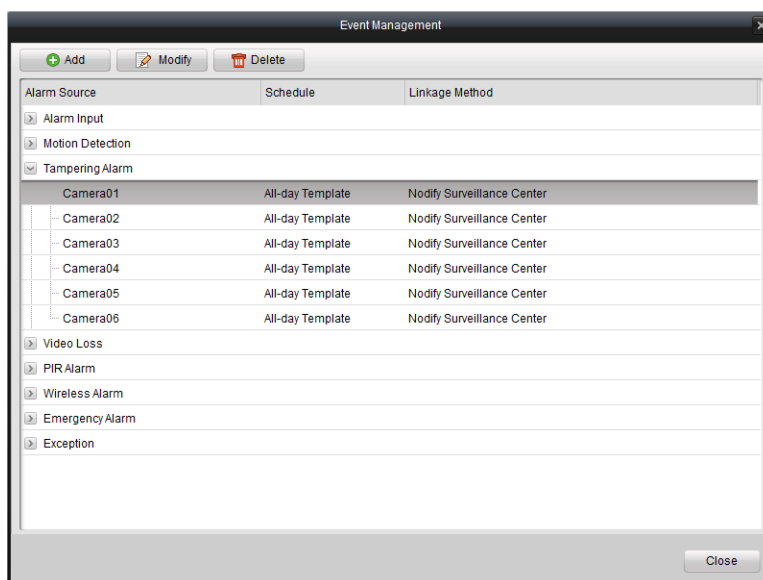


Figure 8.15 Camera List of Tampering Alarm

2. Unfold the Tampering Alarm list to select a channel, and click **Modify** button or double click on the channel number to enter tampering alarm settings interface.

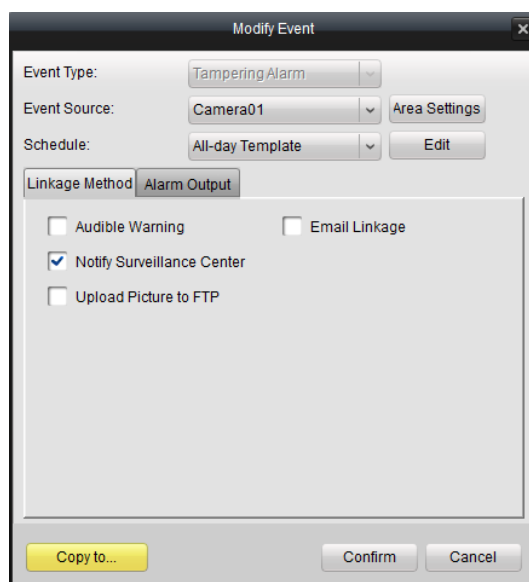


Figure 8.16 Tampering Alarm Settings

3. Click **Area Settings** to modify detection area and sensitivity.

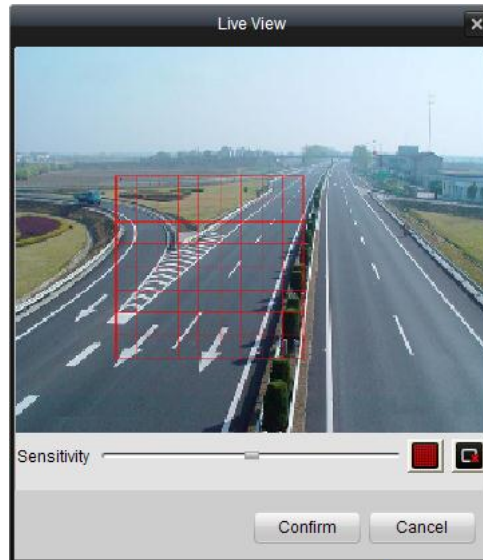


Figure 8.17 Area and Sensitivity Settings

Steps:

- (1) Click and drag your mouse to draw area.
- (2) Drag the  bar to adjust the sensitivity.

Area Settings Button Descriptions

Button	Description
	Set the area to full screen.
	Delete the area.
	Sensitivity bar.

- (3) Click **Confirm** button to save and exit settings.
4. Set arm schedule. Please refer to section 8.1.3 Alarm Schedule and Handlings Settings step 4 for details.
5. Set handling method for tampering alarm, including Linkage Method and Alarm Output. Please refer to section 8.1.3 Alarm Schedule and Handlings Settings step 5 for details.
You can click **Copy to...** to copy the settings to other channels.
6. Click **Confirm** to save and exit settings.

8.4 Configuring Video Loss

Steps:

1. Click Event Management button  to enter event settings interface.

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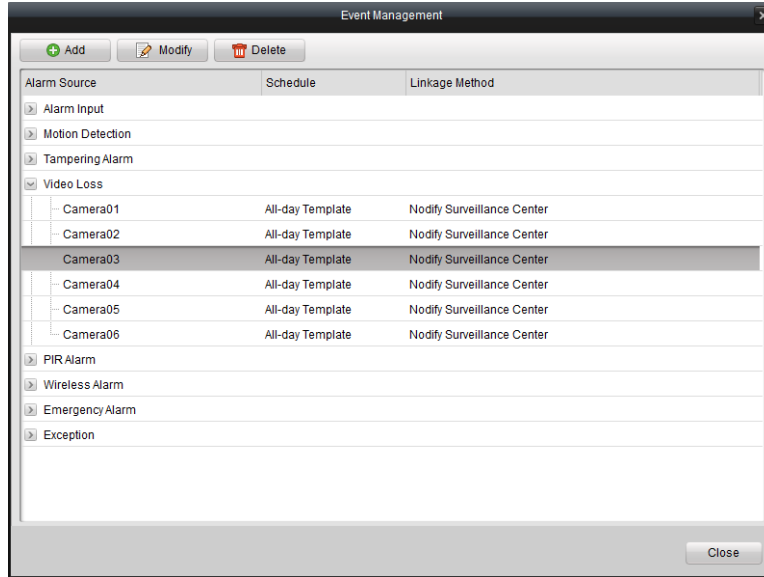


Figure 8.18 Camera List of Video Loss

2. Unfold the Video Loss list to select a channel, and click **Modify** button or double click on the channel number to enter video loss settings interface.

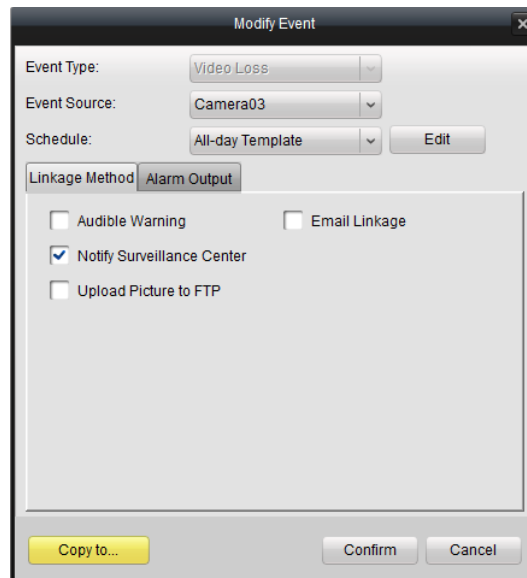


Figure 8.19 Video Loss Settings

3. Set arm schedule. Please refer to *Section 8.1.3 Alarm Schedule and Handlings Settings* step 4 for details.
4. Set handling method for tampering alarm, including Linkage Method and Alarm Output. Please refer to *Section 8.1.3 Alarm Schedule and Handlings Settings* step 5 for details.
You can click **Copy to...** to copy the settings to other channels.
5. Click **Confirm** to save and exit settings.

8.5 Configuring PIR Alarm

Steps:

Note: This section is only for the cameras with the PIR (passive infrared sensor) alarm function.

1. Click Event Management button  to enter event settings interface.

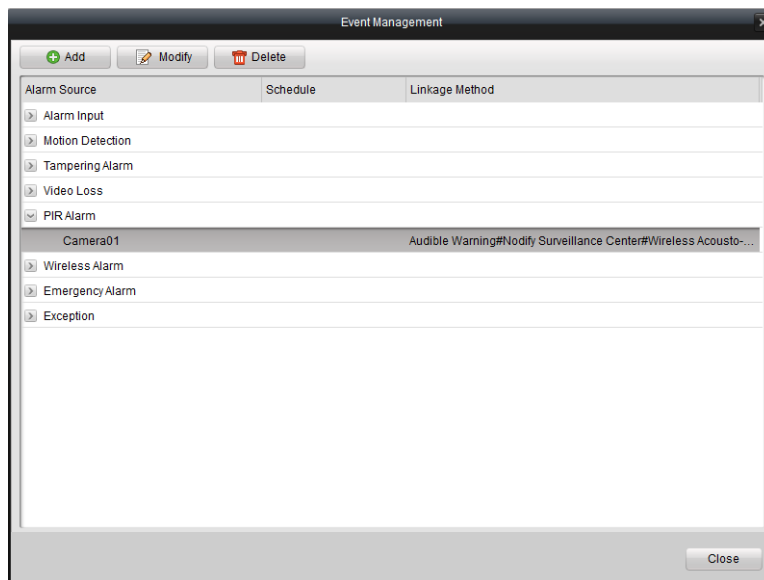
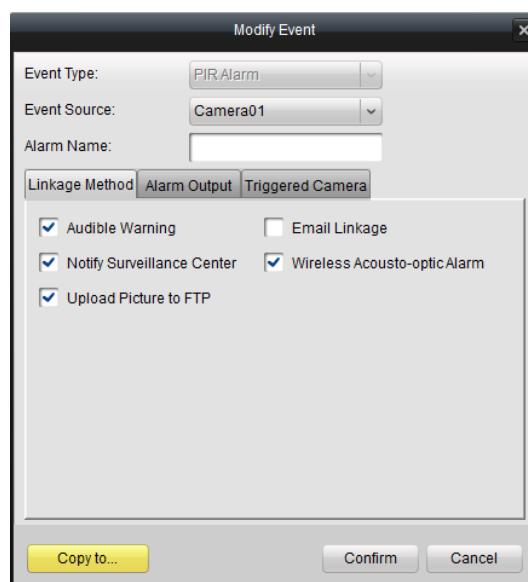


Figure 8.20 Camera List of PIR Alarm

2. Unfold the PIR Alarm list to select a channel, and click **Modify** button or double click on the channel number to enter PIR Alarm interface.



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Figure 8.21 PIR Alarm Settings

3. Set the alarm name as desired in the Alarm Name text field.
4. Set handling method for PIR alarm, including Linkage Method, Alarm Output and Triggered Camera. Please refer to *Section 8.1.3 Alarm Schedule and Handlings Settings* step 5 for details.
You can click **Copy to...** to copy the settings to other channels.
5. Click **Confirm** to save and exit settings.

8.6 Configuring Wireless Alarm

Note: This section is only for the cameras with the wireless alarm function.

Steps:

1. Click Event Management button  to enter event settings interface.

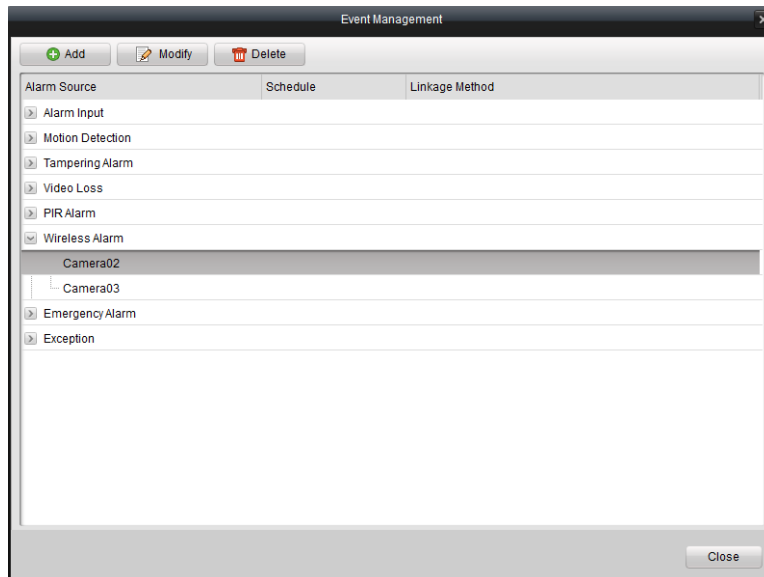


Figure 8.22 Camera List of Wireless Alarm

2. Unfold the Wireless Alarm list to select a channel, and click **Modify** button or double click on the channel number to enter Wireless Alarm interface. You can check the checkbox ☒ **Enable** to enable the wireless alarm.

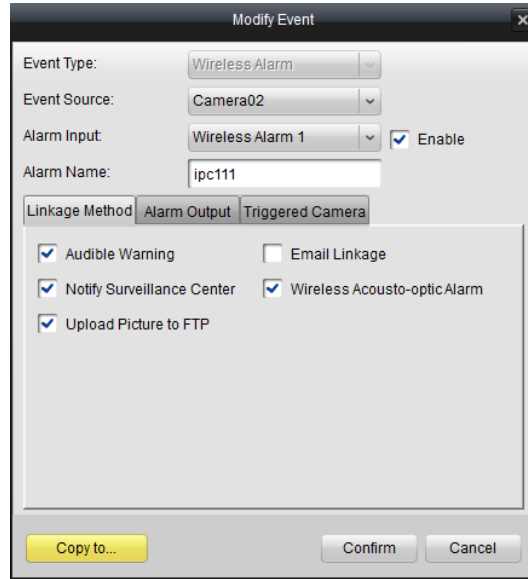


Figure 8.23 Wireless Alarm Settings

3. Select the alarm input and set the alarm name as desired.
4. Set handling method for wireless alarm, including Linkage Method, Alarm Output and Triggered Camera. Please refer to *Section 8.1.3 Alarm Schedule and Handlings Settings* step 5 for details.
You can click **Copy to...** to copy the settings to other channels.
5. Click **Confirm** to save and exit settings.

8.7 Configuring Emergency Alarm

Note: This section is only for the cameras with the emergency alarm function.

Steps:

1. Click Event Management button  to enter event settings interface.

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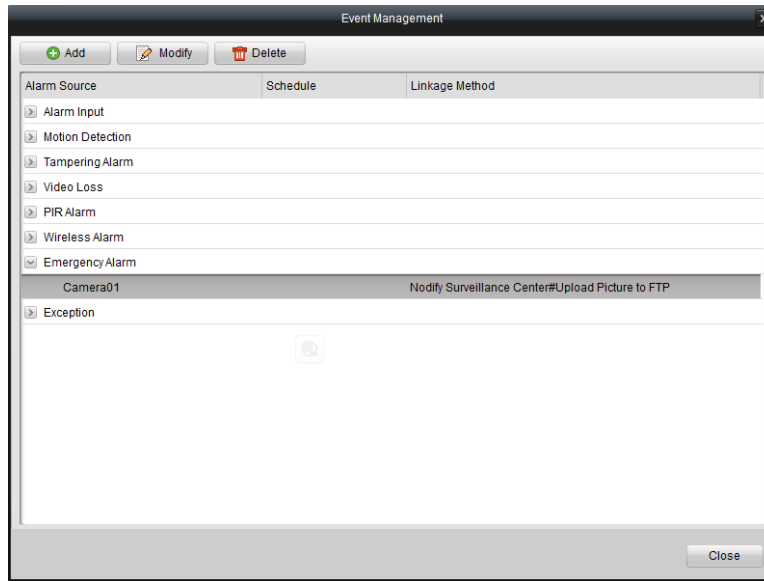


Figure 8.24 Camera List of Emergency Alarm

2. Unfold the Emergency Alarm list to select a channel, and click **Modify** button or double click on the channel number to enter Emergency Alarm interface.

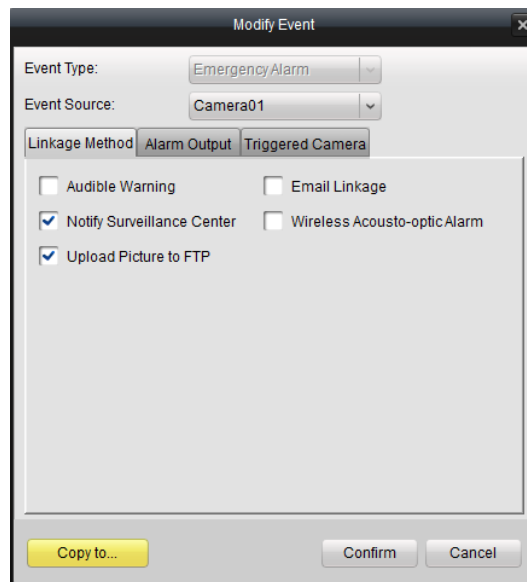


Figure 8.25 Emergency Alarm Settings

3. Select the event source.
4. Set handling method for emergency alarm, including Linkage Method, Alarm Output and Triggered Camera. Please refer to *Section 8.1.3 Alarm Schedule and Handlings Settings* step 5 for details.
You can click **Copy to...** to copy the settings to other channels.
5. Click **Confirm** to save and exit settings.

8.8 Configuring Exceptions

Steps:

1. Enter Click Event Management button  to enter event settings interface.

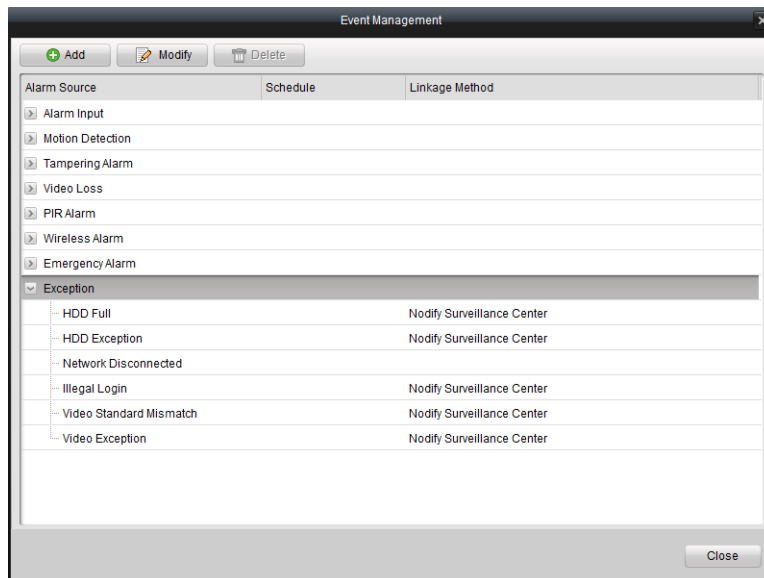


Figure 8.26 Exception List

Exception Parameter Descriptions

Parameter	Description
HDD Full	The HDD is full.
HDD Exception	Writing HDD error or unformatted HDD.
Network Disconnected	Disconnected network cable.
Illegal Login	Incorrect user ID or password.
Video Standard Mismatch	The configured video input standard mismatches with the video output of the camera.
Record Exceptions	No space for saving recorded files or captured images.

2. Unfold the Exceptions list to select a type of exceptions, and click **Modify** or double click on the event type to enter exceptions settings interface.

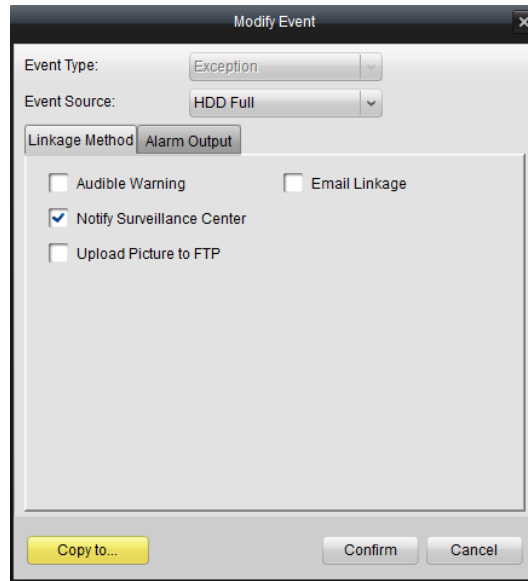


Figure 8.27 Exception Settings

3. You can select event type in the **Event Source** drop-down list.



Figure 8.28 Event Source

4. Set handling method for tampering alarm. Please refer to *Section 8.1.3 Alarm Schedule and Handlings Settings* step 5 for details.
You can click **Copy to...** to copy the settings to other exceptions.
5. Click **Confirm** to save and exit settings.

8.9 Viewing Alarm or Event Information

The alarm information can be viewed by clicking the expand button  or maximize button  in the alarm information field shown in the following figure.



You can also pin the information window on the screen, click .

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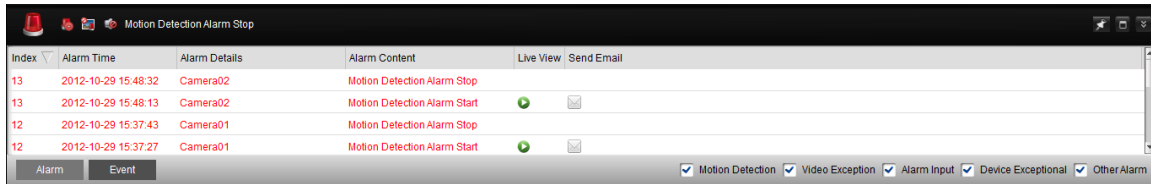


Figure 8.29 Alarm Information

Description of Buttons:

Item	Description
	Twinkles when there are alarms are triggered.
	Clear all the alarm information.
	Enable or disable the pop-up alarm picture on the screen.
	Enable or disable the audible alarm.
	Click to filter the alarm or event information
	Linkage Method: Click the button to view the alarm video.
	Linkage Method: Click to send the E-mail of the alarm info.

You can also check the checkbox to filter the alarm types.



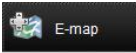
Note: Before you use the button to send the E-mail of the alarm information, you must configure the email settings in the system management interface.

Chapter 9 Managing E-map

9.1 Adding an E-map

Note: Only one map can be added as the main map.

Steps:

1. Click  E-map tab to enter E-map interface.

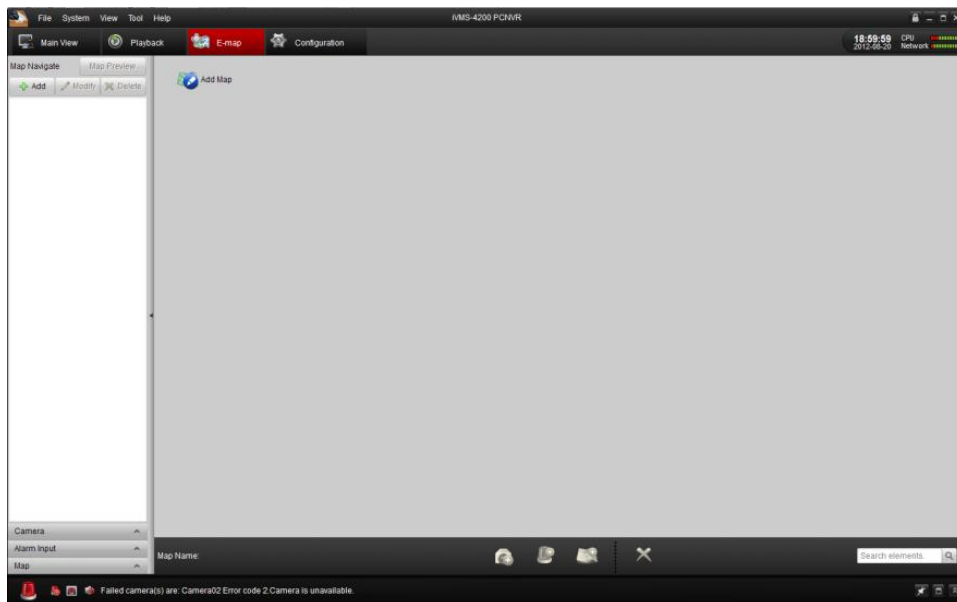
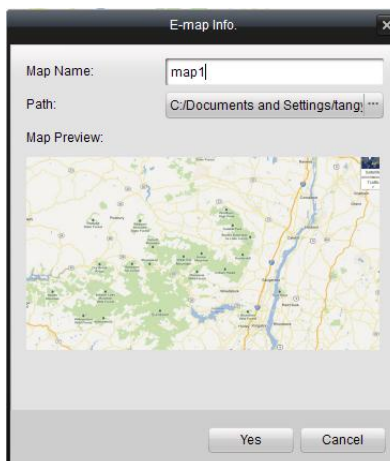


Figure 9.1 E-map

2. Click  Add Map to add map.
3. Enter the name of map, and select the map file from your local directory.



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Figure 9.2 E-Map Information

Note: Map format should be *.png, *.jpg or *.bmp. After add map successfully, it shows on the window and name of map also appears on the map list.

4. Click the **Yes** button to finish adding.

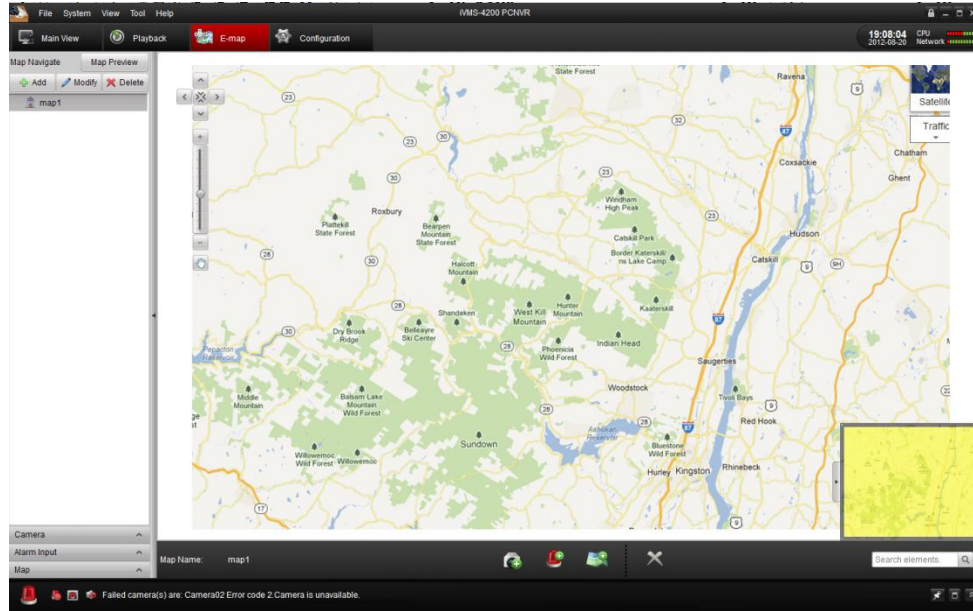
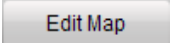
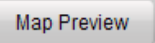


Figure 9.3 E-map Display

Toolbar buttons descriptions

Button	Description
 	Mode switching between editing and preview.
	Add alarm input hot spot on the map.
	Add hot spot on the map.
	Add hot region on the map.
	Remove selected hot spot from the map.
	Switch to previous map. This icon only shows in Map Preview mode.
	Switch to next map. This icon only shows in Map Preview mode.
	Clear alarm display on E-Map manually. This icon only shows in Map Preview mode.

9.2 The Hot Spot Function

9.2.1 Adding a Hot Spot

Adding Camera as a Hot Spot

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Purpose:

You can add the hot spot icon on the map to show the location of the camera, and obtain the alarm information through it.

Steps:

1. Click the  button and the hot spot adding interface will pop up.

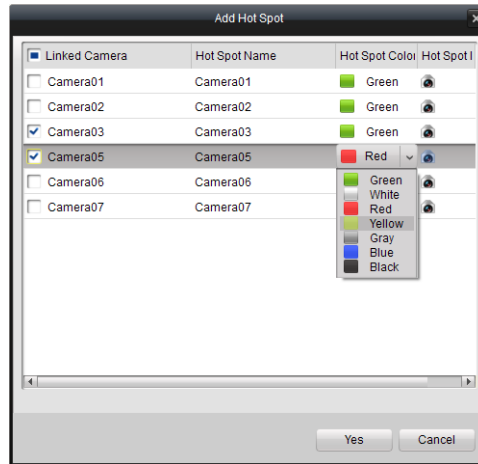


Figure 9.4 Adding Hot Spot

2. Check the checkbox of the camera name and click the **Yes** button to finish adding.

You can edit the **Hot Spot Color** and **Hot Spot Icon** in the drop-down list.

Shortcut Operation:

You can click and drag the camera icon on the list to the map to add it as a hot spot.

You can get the live view image by double-clicking the hot spot icon in the map preview mode.

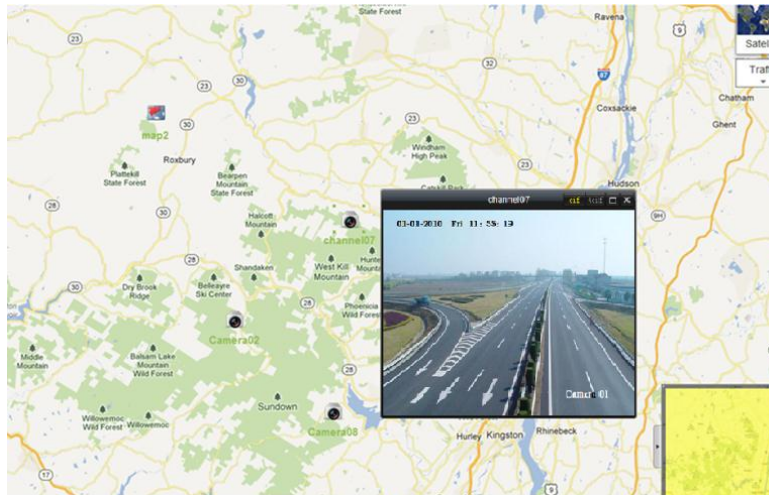


Figure 9.5 Live view image of hot spot

You can change the resolution by clicking cif or 4cif on the top right of the window.

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Figure 9.6 Live view window

Under the map preview mode, if there is any alarm triggered,  icon will appear near the hot spot icon, as shown in the figure below.

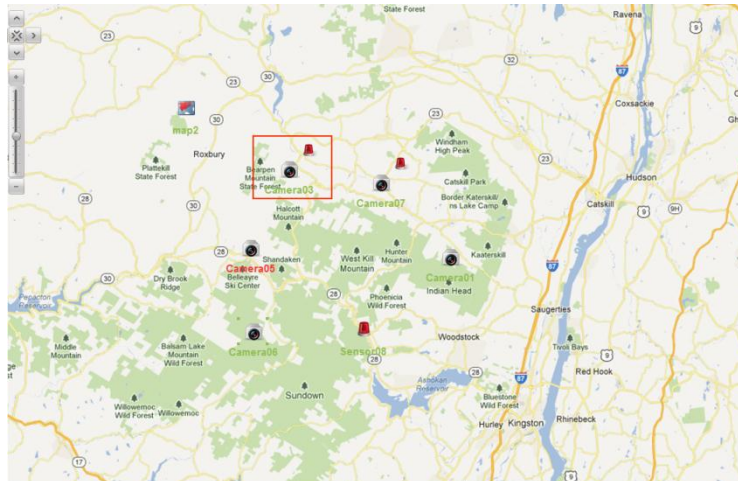


Figure 9.7 A hot spot with alarm

You can click the  icon for detailed alarm information, including alarm type and time.

Adding an Alarm Input as a Hot Spot

Steps:

1. Click the  button and the adding alarm input hot spot interface will pop up.

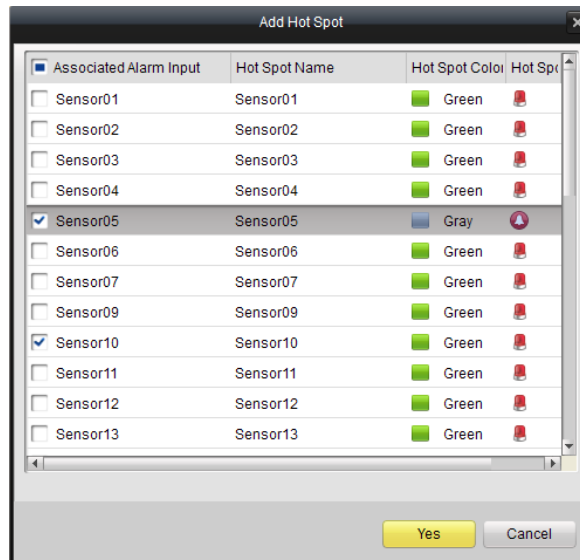


Figure 9.8 Adding an Alarm Input as a Hot Spot

2. Check the checkbox of the alarm input name and click the **Yes** button to finish adding.

You can edit the **Hot Spot Color** and **Hot Spot Icon** in the drop-down list.

After adding, you can drag the alarm icon to the target position on the map.

9.2.2 Editing a Hot Spot

Click the camera icon on the map, you can see and modify the properties of the spot in the right side bar, including Live View image, Name, Color, Icon and Associated camera.



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Figure 9.9 Editing a hot spot parameters

Click the alarm icon on the map, you can see and modify the properties of the spot in the right side bar, including Name, Color, Icon and Associated alarm.

Property

Type: Alarm Input

Name: Sensor08

Color: Green

Icon: [Alarm Bell Icon]

Associated: Sensor08

Figure 9.10 Editing an alarm input hot spot parameters

9.3 The Hot Region Function

Purpose:

The hot region function links a map to another map. When you add a map to another map as a hot region, an icon of the link to the added map is shown on the map. And the added map is called child map while the map to which you add the hot region is the parent map.

Note: You can add up to 16 sub maps under the main map.

Steps:

1. Add another map first.

E-map Info.

Parent Map: map1

Map Name: map2

Path: C:/Documents and Settings/tang/...

Map Preview:

[Map Preview showing a street map with a green square indicating the hot region]

Yes Cancel

Figure 9.11 Enter Sub Map information

Note: The first map you added will be the parent map by default.

2. Click the parent map name on the left side bar and click  to add hot region.
3. Check the checkbox of the map in the pop up window; click the **Yes** button to add.

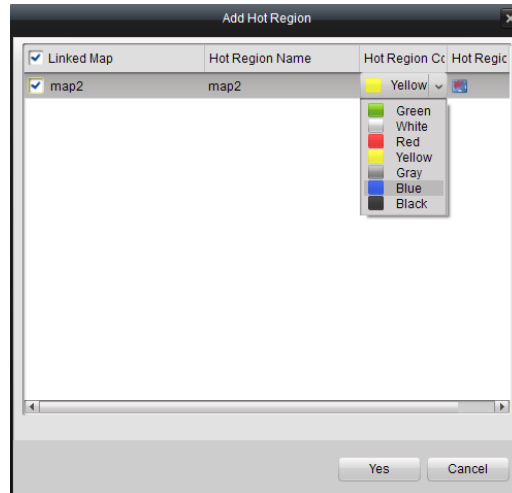


Figure 9.12 Adding Hot Region

Shortcut Operation:

You can click and drag the sub-map icon on the list to the parent map.

You can edit the **Hot Region Color** and **Hot Region Icon** in the drop-down list.

After adding, you can enter the sub map interface by clicking the icon on the main map in the map preview mode, as shown in the figure below.

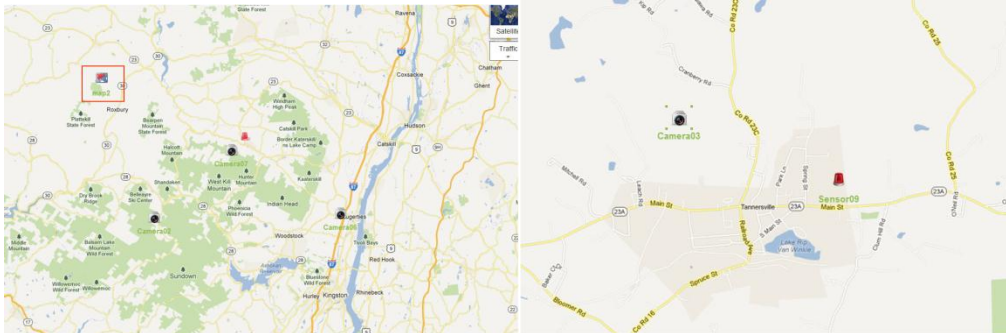


Figure 9.13 Sub-Map Display

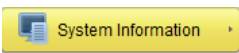
You can also add hot spots on the sub-map. Please refer to the *section 9.2 The Hot Spot Function* for the detailed information.

Chapter 10 System Configuration

10.1 Viewing the System Information

The system information of the PCNVR software can be read in the system information interface.

Steps:

1. Click  **Configuration** tab page on the navigation bar.
2. Click  icon.
3. Click  button.

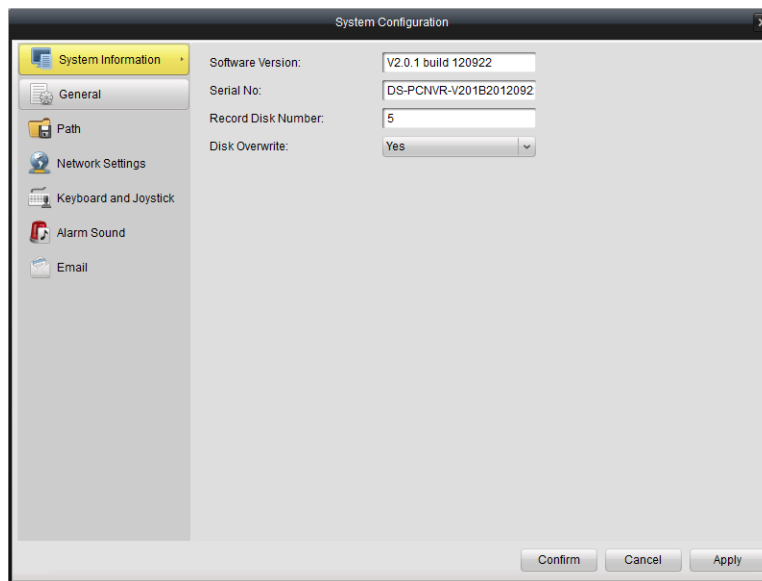


Figure 10.1 System Information

Software Version: is the version information of the software which is a read-only text field.

Record Disk Number: is the number of the disks are there for scheduled recording which is a read-only text field.

Serial No: is the serial number of the PCNVR.

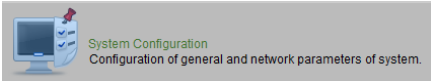
Disk Overwrite: can be select as yes or no, when selecting yes, the HDD record files can be over-written and

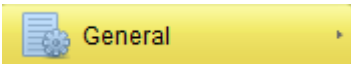
select no, the data will not be over-written.

10.2 General Configuration

Steps:

1. Click  tab page on the navigation bar.

2. Click  icon.

3. Click  icon.

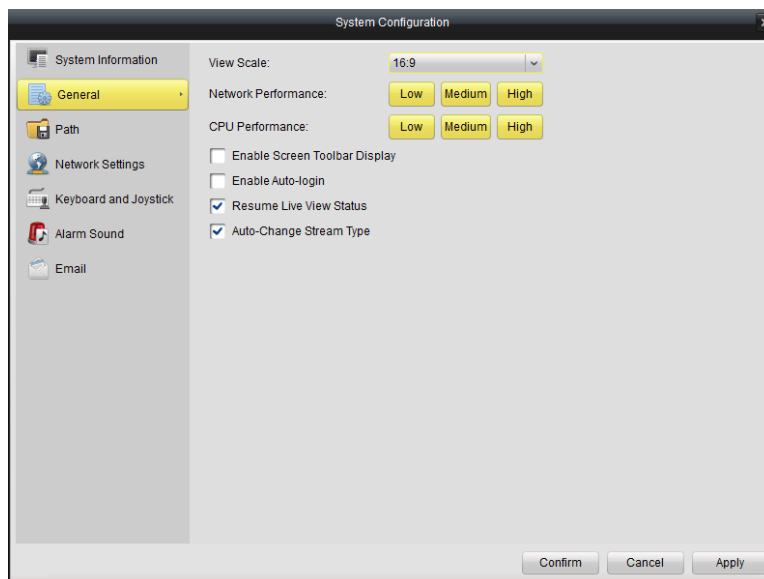


Figure 10.2 System Configuration-General

View Scale: is to set the value for the view scale, and the value can be full screen, 16:9, 4:3 and the original resolution.

Network Performance: is to choose the network performance of the software.

CPU Performance: is to set the CPU performance, you are recommended to set the high CPU performance when the CPU load is low, and low CPU performance when the CPU load is high.

☒ **Enable Screen Toolbar Display** check to enable the quick setting toolbar on the live view page.

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☐ Enable Auto-login

check to enable the login without user authentication.

☒ Resume Live View Status

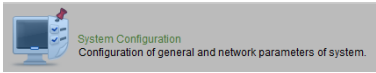
check to enable the resume live view status after software rebooting.

☒ Auto-Change Stream Type

check the checkbox the stream type changes to sub-stream when the channel number is over 16.

10.3 Setting the paths for the manual record, captured picture and Configuration File

Steps:

1. Click  tab page on the navigation bar.
2. Click  icon.
3. Click  icon.

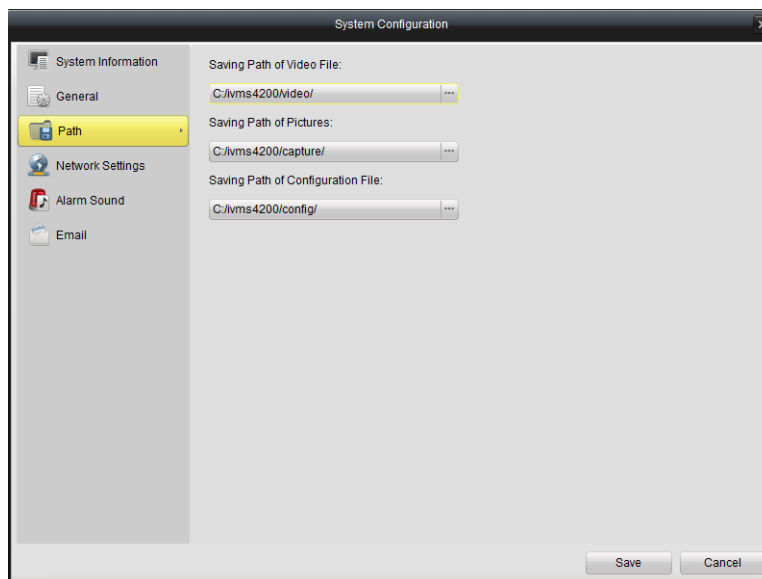


Figure 10.3 Setting Saving Path of Files

4. Click the  button to browse the folder you'd like to save the manual record files, the captured pictures and the configuration file.

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Manual record here means the record you enabled on the live view page, by clicking the record button on the quick setting toolbar of the live view page.

10.4 Setting the Network Information

Steps:

1. Click  tab page on the navigation bar.
2. Click  icon.
3. Click  icon.
4. Set the network related parameters for the software.

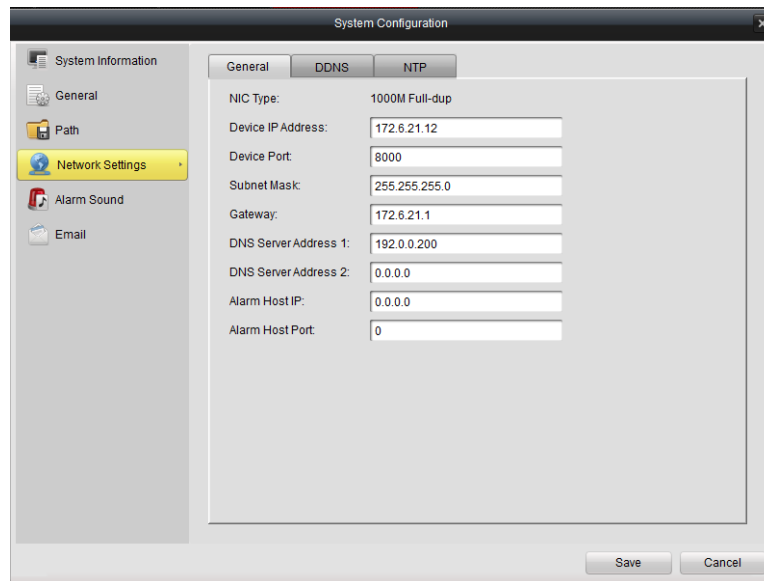


Figure 10.4 Network Settings-General

General:

The general network parameters are the same with those of the PC installed the software. If you change the settings here, the settings on the PC will be also changed.

DDNS:

You can use the DDNS method to avoid the complexity of accessing by the dynamic IP address.

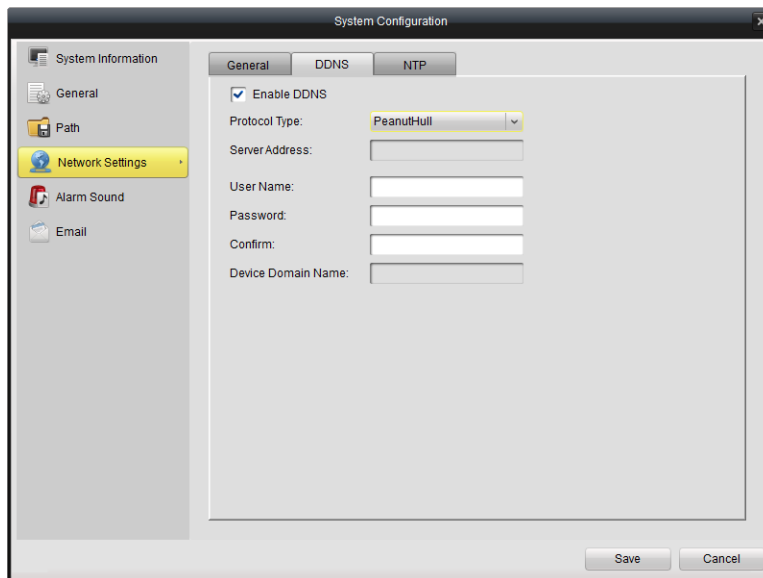


Figure 10.5 Network Settings-DDNS

NTP configuration:

You can configure the NTP server to synchronize the system time at a certain time interval.

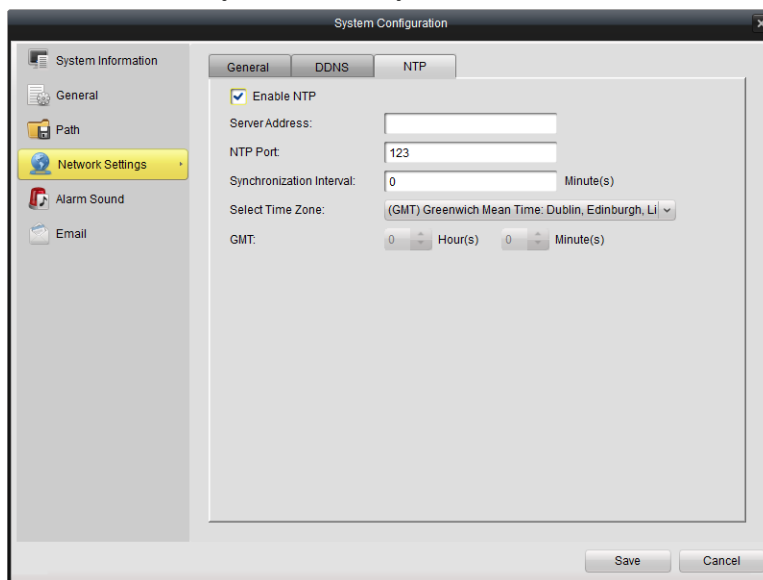


Figure 10.6 Network Settings-NTP

10.5 Alarm Sound Configuration

Steps:

1. Click  Configuration tab page on the navigation bar.
2. Click  icon.
3. Click  icon.

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You can configure the alarm sound for the audible alarm in this interface.

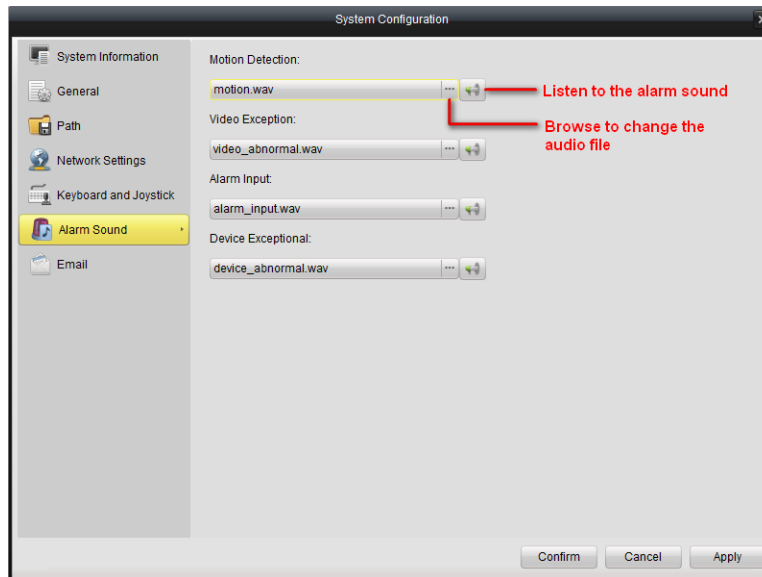


Figure 10.7 Alarm Sound

10.6 Email Configuration

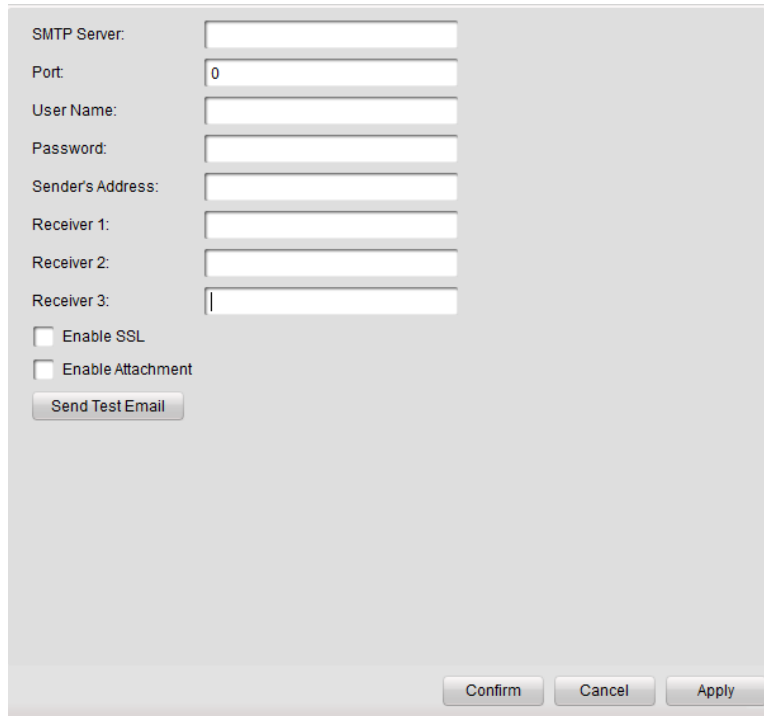
Email configuration is to configure the email parameters of the linkage action of alarm and event to trigger email sending.

Steps:

1. Click  Configuration tab page on the navigation bar.

2. Click  icon.

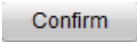
3. Click  icon.



The dialog box for Email Settings contains the following fields and controls:

- SMTP Server: [Text Field]
- Port: [Text Field with value 0]
- User Name: [Text Field]
- Password: [Text Field]
- Sender's Address: [Text Field]
- Receiver 1: [Text Field]
- Receiver 2: [Text Field]
- Receiver 3: [Text Field]
- ☐ Enable SSL
- ☐ Enable Attachment
- [Send Test Email Button]
- [Confirm Button] [Cancel Button] [Apply Button]

Figure 10.8 Email Settings

Enter the information of the email sender account and those of the receivers. You can send a test email to verify your settings. Click  to confirm your settings.

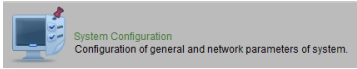
10.7 Keyboard and Joystick Configuration

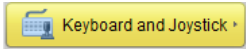
Purpose:

You can choose the COM port for the keyboard and the set the PC keyboard shortcuts for the frequently used function.

Steps:

1. Click  tab page on the navigation bar.

2. Click  icon.

3. Click  icon.

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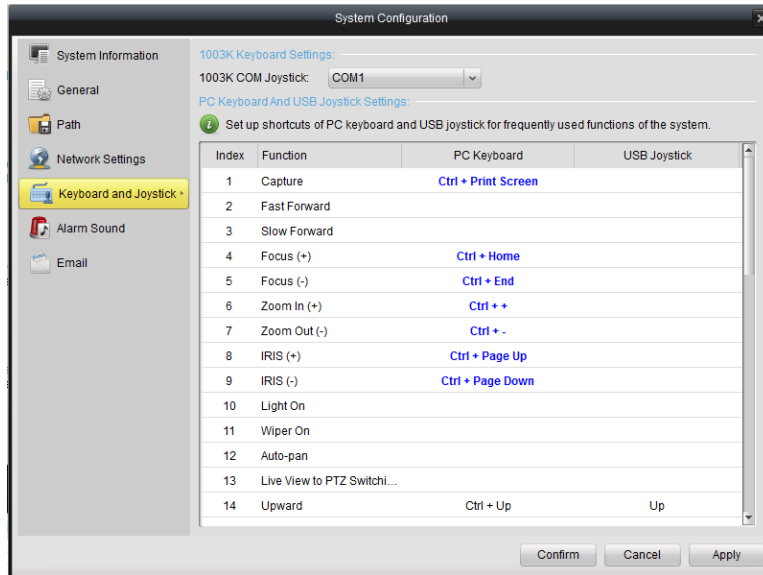


Figure 10.9 Keyboard and Joystick Configuration

To set the PC keyboard shortcuts and USB joystick for the frequently used operation:

Steps:

- 1) Click to choose a function.
- 2) Double-click the item field under the PC Keyboard list and/or USB Joystick.

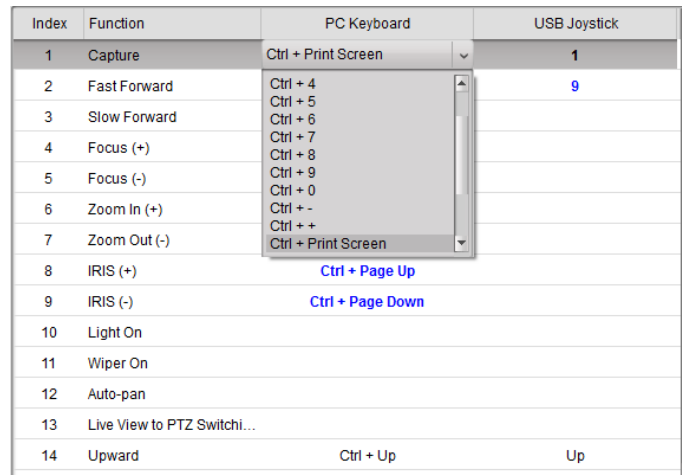


Figure 10.10 PC keyboard

- 3) Choose in the dropdown list of the compound keys operation and/or USB Joystick operation.
- 4) Click **Confirm** button after you finish your settings.
- 5) Apply it then you can use the shortcut to realize the function on your PC keyboard and USB joystick.

Chapter 11 Disk Management

Purpose:

You need you allocate the HDD spaces for the scheduled recording, and you can do it in the wizard. Without allocating and formatting the disks, the scheduled recording function is not valid.

Steps:

1. Click  on the configuration panel, or click **Tool -> Disk Management**.

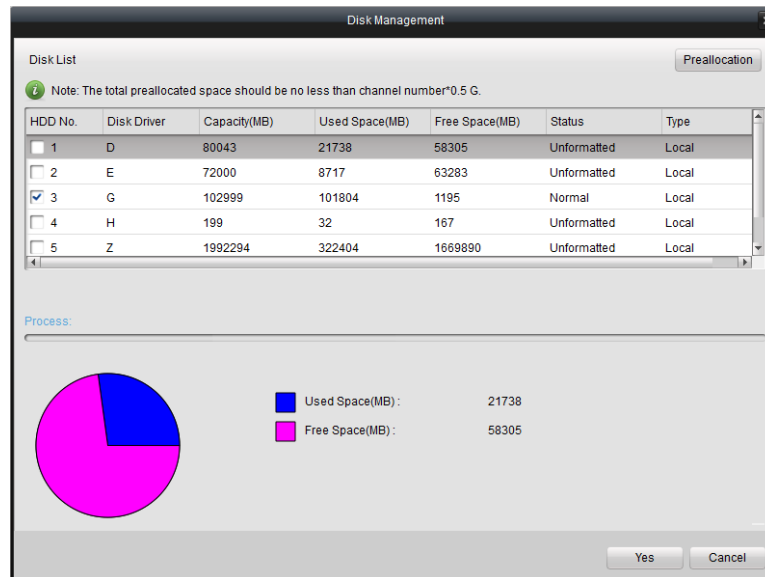
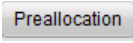


Figure 11.1 Disk Management

2. Check the checkbox of the disk driver to choose the disk.
3. Click  to allocate the disk space for recording files storage. And the process bar on the interface shows the progress of the allocating.

After the allocating, the status of the disk changes to *Normal*.

Chapter 12 Web Browsing

Purpose:

iVMS-4200 PCNVR can also be accessed through web browsing. You can set the functions of live view, playback, log search, parameters configurations, etc.

12.1 Logon

Steps:

1. Input the IP address of PCNVR in the address bar of web browser, and click the **Enter** key.

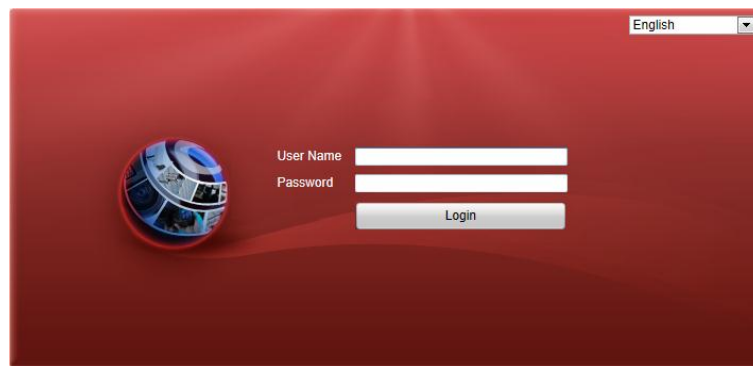


Figure 12.1 User Login

You can set the language as Chinese or English on the top right corner of the login interface.

2. Input the user name and password. The user name is *admin* and password is *12345* by default.
3. Click **Login**.

12.2 Camera Configurations

Before you start:

The network cameras or encoders to be imported or configured should be in the same network with the PCNVR.

Steps:

1. Enter the camera adding interface:

Configuration -> Remote Configuration -> Camera Management -> IP Camera

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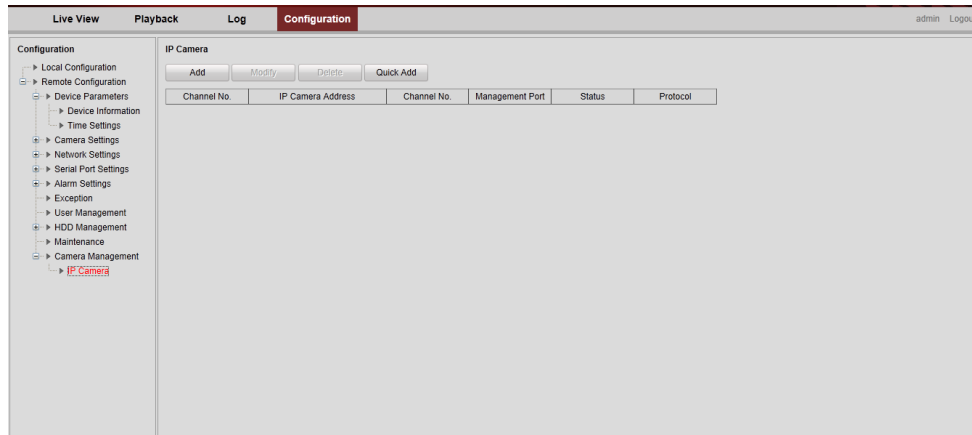


Figure 12.2 Configuration

2. Add the camera to the PCNVR.

Steps:

- 1) Click **Add**, and the camera adding dialog box pops up.

IP Camera

IP Camera Address

Protocol: HIKVISION

Management Port: 8000

Channel No.: 1

User Name: admin

Password

Confirm

OK Back

Figure 12.3 Adding the Camera

- 2) Input the IP address, user name, password and other information of the camera.
- 3) Click **OK** to add the camera.
3. Check the connection status of the camera.

If the camera is added successfully, the status of the camera in the channel list shows as **Online**.

Otherwise, the status shows as **Offline**. Then please check the information of the camera including the IP address, password, protocol, etc.

Channel No.	IP Camera Address	Channel No.	Management Port	Status	Protocol
D01	172.6.23.136	1	8000	Online	HIKVISION
D02	172.6.23.100	1	8000	Online	HIKVISION
D03	172.6.23.121	1	8000	Online	HIKVISION

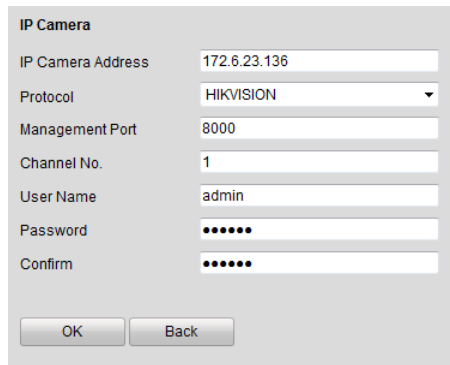
Figure 12.4 Camera List

4. Modify the camera information.

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Steps:

- 1) Select the camera in the channel list.
- 2) Click **Modify**.



The image shows a configuration window titled "IP Camera". It contains several input fields: "IP Camera Address" with the value "172.6.23.136", "Protocol" with a dropdown menu showing "HIKVISION", "Management Port" with the value "8000", "Channel No." with the value "1", "User Name" with the value "admin", "Password" with masked characters "*****", and "Confirm" with masked characters "*****". At the bottom, there are "OK" and "Back" buttons.

Figure 12.5 Modifying the Camera

- 3) Modify the camera information including the IP address, protocol, management port, etc.
- 4) Click **OK** to save the new settings.

12.3 Live View

Steps:

1. Click **Live View** tab to enter the live view interface after the camera added successfully.

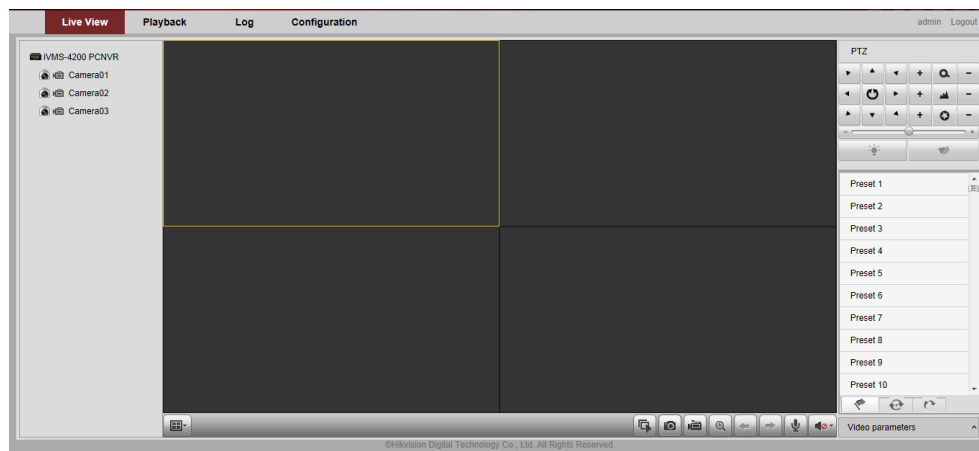


Figure 12.6 Live View

If it is the first time for live view, the system will remind you to install the ActiveX control. Click and install the ActiveX control.

Live View Toolbar:



Button	Name	Description
--------	------	-------------

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	Layout	Select the view mode for the live view.
	Start All Live View	Start the live view for all the channels.
	Capture	Capture pictures in the live view of the cameras.
	Start All Recording	Start the recording for all the channels.
	Digital Zoom	Enable the digital zoom function.
	Prev Page	Jump to the live view of next group.
	Next Page	Jump to the live view of previous group.
	Start Two-way Audio	Start two-way audio, click again to stop. The two-way audio can be used for only one camera at one time.
	Audio On	Enable/disable live audio.

- Click the icon and select the view mode. Up to 4 kinds of view modes are selectable: 1-Screen and 4-Screen, 9-Screen and 16-Screen.
- Select the display window.
- Click the icon  in the channel list or double-click the channel name to get the live view of the camera.

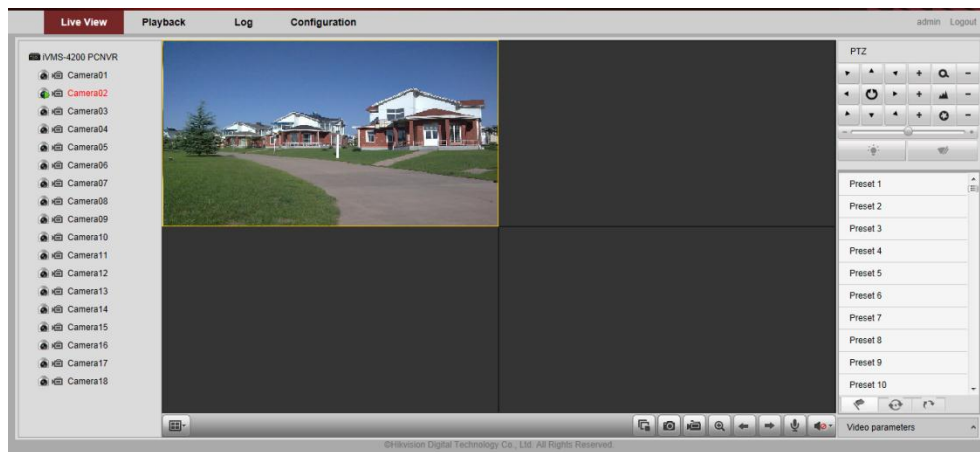


Figure 12.7 Live View for the Camera

- You can click the icon  to start the live view for all the channels.

12.4 Disk Management

Steps:

- Enter the Disk Management interface:

Configuration -> Remote Configuration -> HDD Management -> Basic Settings

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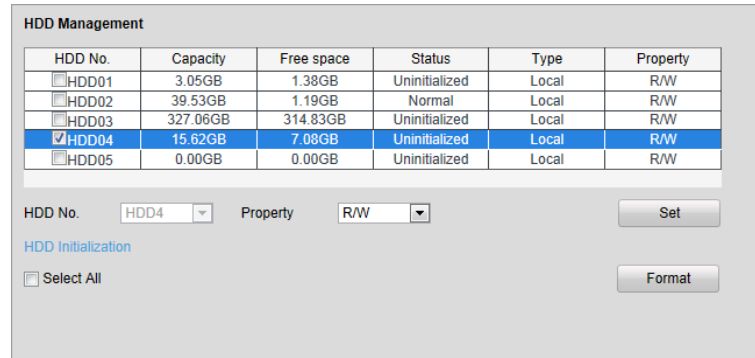
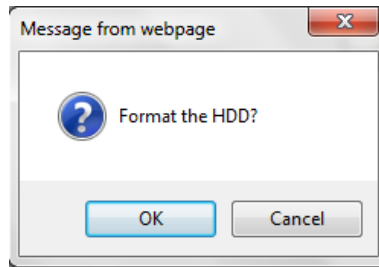


Figure 12.8 HDD Management

2. Select the disk to be formatted by checking the corresponding checkbox.
3. Click **Format** to start to format the selected disk. A message box pops up as following:



4. Click **OK**.
5. After the selected disk formatted successfully, the PCNVR reboots automatically. Input the user name and password to login again. The status of the formatted HDD changes from **Uninitialized** to **Normal**. The normal HDD can be used as the recording storage device.

Notes:

1. The disk formatting needs to be finished before the recording.
2. The formatting function won't delete the original data of your disk. It just preallocates the disk space for recording.

12.5 Record Configurations

12.5.1 Manual Record

Steps:

1. Enter the live view mode of the channel.
2. Click  to start the recording of this channel. If the icon does not change to , the note message "Recording failed" pops up.
3. To stop the recording, click .

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When there are multiple channels in live view mode, you may click  to start the recording for all the channels, or click  to stop.

Note: The manual record functions in the live view mode.

12.5.2 Schedule Record

Steps:

1. Enter the Schedule Settings interface.

Configuration -> Remote Configuration -> Camera Settings -> Schedule Settings

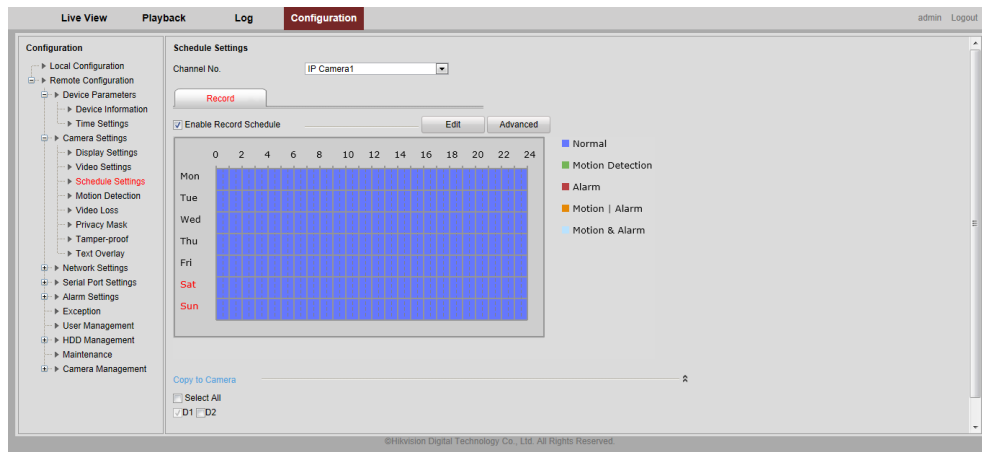


Figure 12.9 Schedule Record

2. Click the icon ▼ and select the channel in the drop-down list.
3. Set the schedule for record.

Steps:

- 1) Check the checkbox of Enable Record Schedule.
- 2) Click **Edit**.

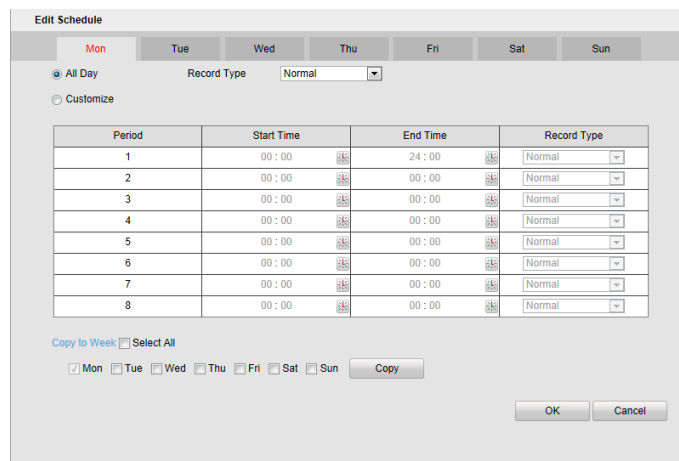


Figure 12.10 Configuring the Schedule

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- 3) Select the record type in the drop-down list. There are five recording types supported, including **Normal**, **Motion Detection**, **Alarm**, **Motion & Alarm**, and **Motion | Alarm**.

“&” means recording is triggered when both the two events happened at the same time.

“|” means recording is triggered when either the event happened.

- 4) Select one day in a week by clicking the corresponding tab.
- 5) Click to select **All Day** mode for record if required. You can also customize the time period for record. Click to select **Customize** mode. There are 8 time periods in one day. Then you can set schedule recording from the drop-down menu. You are also allowed to copy the settings to whole week or to any day of the week

Note: Please make sure that each time period is not overlapped.

- 6) Click **OK**.

4. You can copy the schedule to other channels.

Steps:

- 1) Check the checkbox of the channel to copy to.
- 2) Click **Save**.

12.6 Playback

Steps:

1. Click **Playback** tab to enter the Playback interface.



Figure 12.11 Playback

Playback Toolbar:



Button	Name	Description
	Layout	Select the view mode for the live view.
	Play	Start the playback of the record file.

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	Stop	Stop the playback of the record file.
	Slow Forward	Decrease the speed of instant playback
	Fast Forward	Increase the speed of instant playback
	Single Frame	The video move forward to the next frame.
	Stop All Playback	Stop the playback of all channels.
	Capture	Capture pictures in the playback of the cameras.
	Download	Download the record file.
	Start / Stop clipping	Start / Stop the video clipping of the record file.
	Audio on / off	Enable/disable the audio of in the playback of the record file.

- Select a channel on the channel list. (Channel 1 is the default).

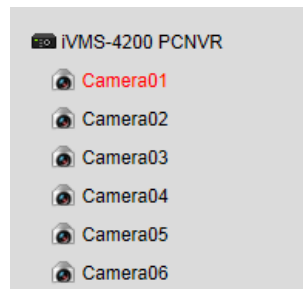


Figure 12.12 Channel List

- Select a date in calendar.

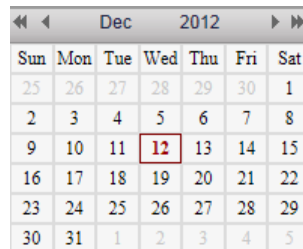
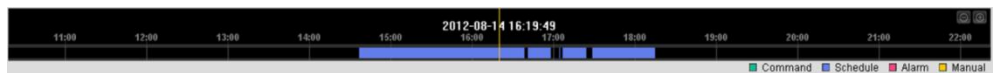


Figure 12.13 Calendar

- Click **Search**. If some matched record files are searched, they will be shown in the time line area.



You can drag the timeline to select the specific time, or input the time in the pop-up box and click  to locate the playback point. The playback will start from the specified time. Different file types will be indicated with different colors.



- After the search finished, click  to play the record file.

12.7 Log Management

1. Click Log tab to enter the Log Management interface.

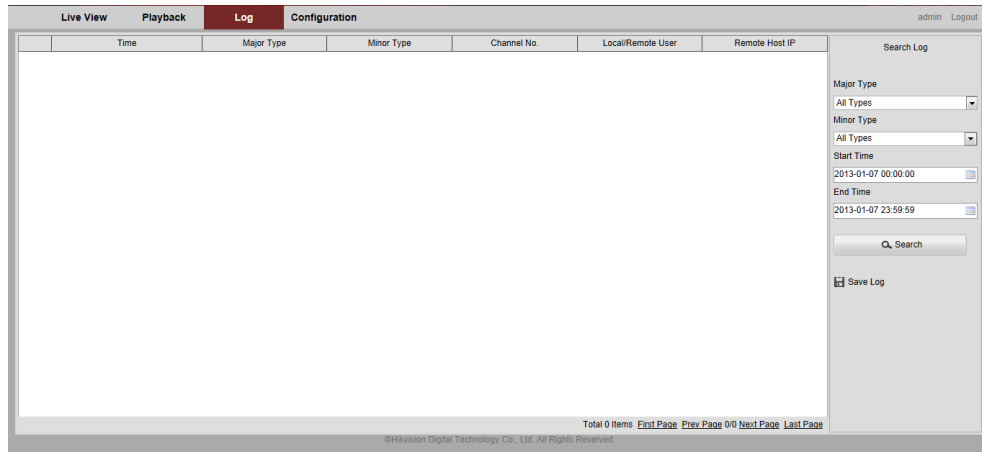


Figure 12.14 Log Search

2. Select the type, start time, and end time of the log files.

Note: 2 kinds of the log type are selectable: Major Type and Minor Type. Select the major type of the log first, and you can specify the major type by selecting the minor type.

3. Click **Search**. The matched log files will be displayed as following:

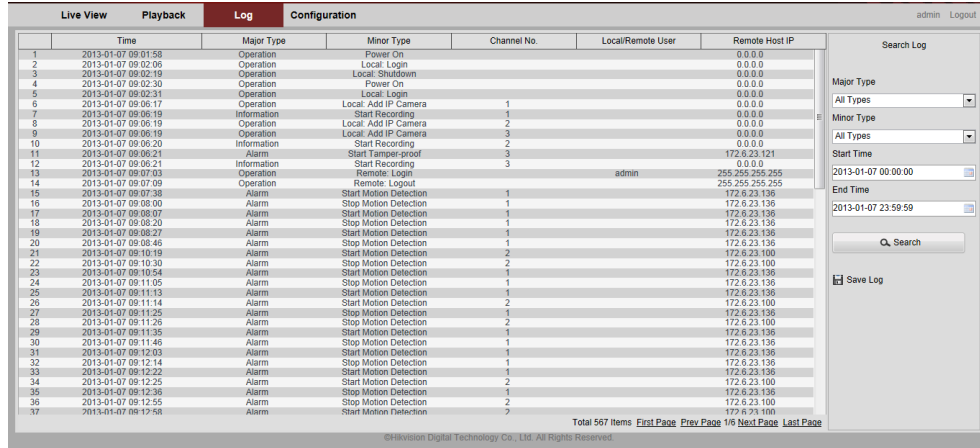


Figure 12.15 Log File List

Note: Up to 2000 piece of log files can be displayed.

4. Save the log files.

Steps:

- 1) Select the log file in the log list.
- 2) Click **Save Log**.

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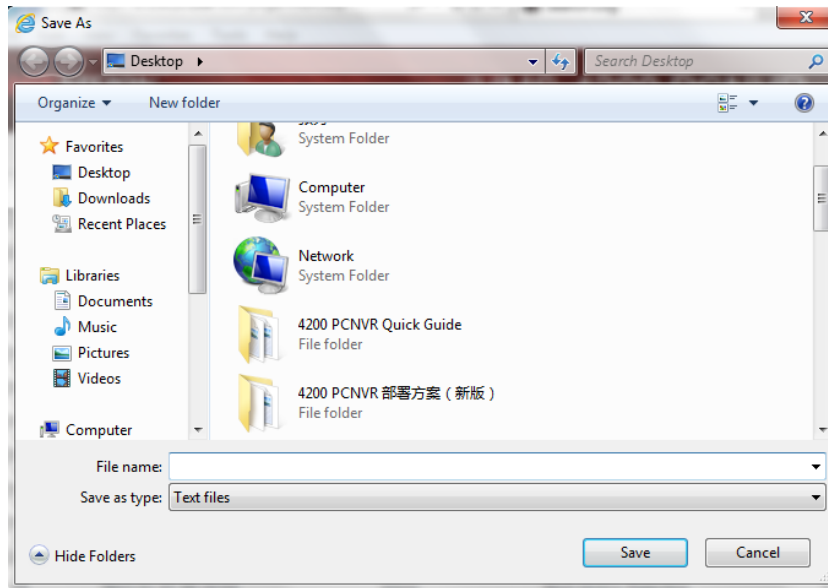


Figure 12.16 Saving Path of the Log

- 3) Select the saving path of the log file and input the file name.
- 4) Click **Save**.

